SERVICE MANUAL



# FISHER

# PH 480L

Stereo High Fidelity
System
(EUROPE)



The first name in high fidelity

# **CONTENTS**

Specifications
Disassembly Instructions
Functional Block Diagram
Cabinet & Chassis Exploded View
Speaker Box Exploded View (Left) 10
Speaker Box Exploded View (Right)11
Parts List
Speaker Box Schemetic Diagram
Electrical Adjustments
Mechanical Adjustments
Cassette Deck Exploded View (Top View 2-1)
Cassette Deck Exploded View (Top View 2-2)
Cassette Deck Exploded View (Bottom View 2-1)
Cassette Deck Exploded View (Bottom View 2-2)
Printed Circuit Board Alignment Points (Tuner Section)
Recommended Test Equipments
AM Tuner Alignment
Band SW. P.C.Board Alignment Point (Top View)
FM Tuner Alignment
Dial Cord Stringing
Parts List
Phono EQ & RCA Terminal P.C.Board (Bottom View)
Balance/Rec, Speaker Out and Mic Jack P.C.Board (Bottom View)
RF, IF, MPX P.C.Board (Bottom View)
Function & Control P.C.Board (Bottom View)
Band SW., Volume P.C.Board (Bottom View)
Main Amplifier P.C.Board (Bottom View)
Power Supply, Headphone P.C.Board (Bottom View)
Cassette Rec/Play P.C.Board (Bottom View)
ASF Ind., ASF Control P.C.Board (Bottom View)
Tone Amp & VU Meter, Deck Mode Ind. P.C.Board (Bottom View) 49
Pointer/Tuner, Stereo Ind. P.C.Board (Bottom View)
Schematic Diagram (1)
Schematic Diagram (2)
Point to Point Wiring Diagram55 & 56
IC Equivalent Circuit & Block Diagram
Semiconductor Lead Identification

**NOTES:** Schematic Diagram (3) and Point to Point Wiring Diagram are separately attached to this manual.

# **SPECIFICATIONS**

Power Source	100/0001
AC	
DC	15V (UM-1, HP 2, D Cell, Monozellen, R20) x 10
Output Power	11.5W x 2 (10% THD, DC)
Power Consumption	80W
Current Consumption (at VR min.)	
Record mode	
Playback mode	370 mA
Fast Forward mode	370mA
Rewind mode	370mA
Recording System	
Frasing System	AC Erasing
Tane Speed	1-//81ps. ±3%
Wow & Flutter	0.055% WRMS
Fast Forward Time	100 sec. (with C-60 cassette tape)
Rewind Time	
Frequency Response (Overall DOLBY : OF	F)
Fe2O3	
CrO2	40 Hz — 14 kHz
Motal	40 Hz — 15kHz
Erase Ratio (Overall)	
Enance Natio (Overall)	50dB
Signal to Noise Ratio (DOLBY: OFF)	
Signal to Noise Natio (DOEB1: Of 1)	50dB
Metal	53dB
Crosstalk (with Fe2O3)	
Channel Consention (with Ec. O.)	
Channel Separation (with Fe2O3)	
Hum & Noise	
Input Sensitivity and Impedance	0.5mV/3.9k-ohm
MIC	
PHONO	160 mV/47 k ohm
	160 mV/47 k-ohm
Output Level and Impedance	300mV/3 3k-ohm
LINE OUT	
EXT. Speaker	4ohm
Headphone	200ohm
Oscillation Frequency	47 ELU-
1	47.5kHz
2	46.3kHz
Frequency Range	
FM	87.6 – 108 MHz
SW	5.8 – 18 MHz
MW	
1 W	
E**	

### \*Dolby is a registered trademark of Dolby Laboratories.

Because its products are subject to continuous improvement, Fisher Corporation reserves the right to modify product designs and specifications without notice and without incurring any obligation.

## **DISASSEMBLY INSTRUCTIONS**

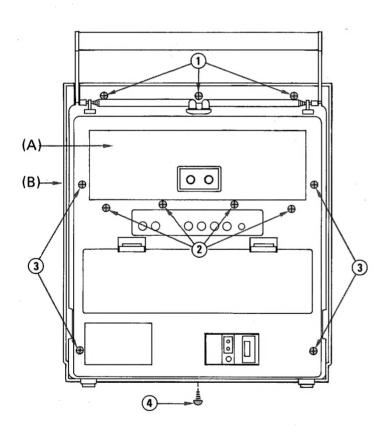
#### **GENERAL REMARKS**

Before disassembling the unit, spread a soft rubber mat or a cloth on the work bench to avoid scratches and grease spots on the unit.

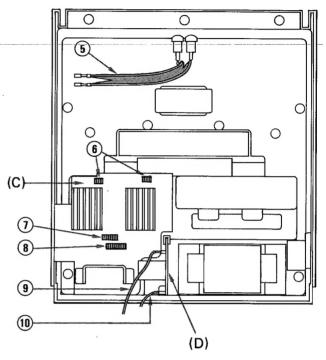
Reassemble the unit correctly noting the kinds of fastening screws and leads. Please refer to the wiring diagrams and exploded views.

#### A. CABINET REAR PANEL REMOVAL

- 1. Remove the screws (1, 2, 3, and 4) securing the Rear Panel (A).
- 2. Pull out the Rear Panel from the Cabinet (B).



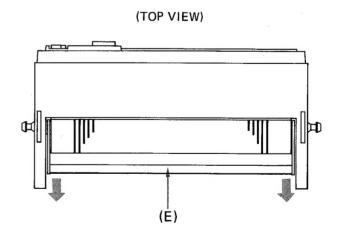
- 3. Disconnect the antenna feeder line (5) running to the RF, IF, MPX P.C.Board.
- 4. Disconnect the connectors (6, 7, and 8), running to the Main Amplifier P.C.Board (C), from the plugs.
- 5. Disconnect the two orange leads (9 and 10) running to the Power Supply P.C.Board (D). Then, the Rear Panel (A) will be completely separated from the Cabinet (B).



#### **B. HANDLE REMOVAL**

 Remove the Handle (E) by pulling it out in the direction of the arrow. The handle holders are removed together with the handle.

Reassemble the handle in reverse order.

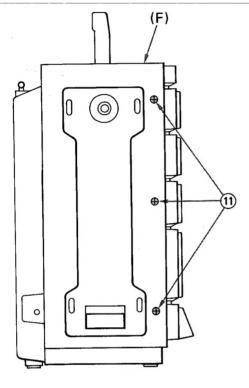


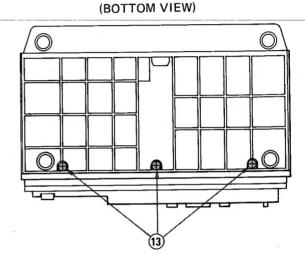
## **DISASSEMBLY INSTRUCTIONS (Continued)**

#### C. SIDE CABINET REMOVAL

- 1. Remove the six screws (11 and 12) securing the Side Cabinet
- 2. Remove the three screws (13) on the bottom of the Side Cabinet. The Side Cabinet can be completely separated from the unit.

#### (LEFT VIEW)

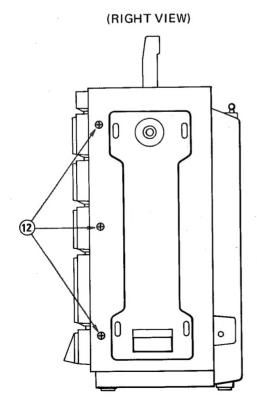


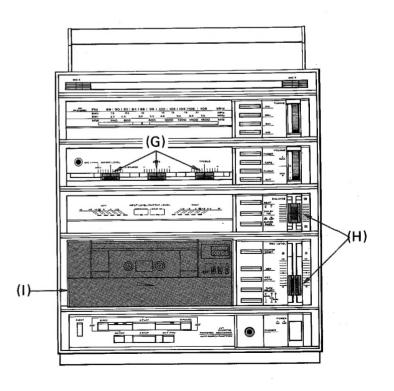


3. A replacement or repair work of all components on the P.C.Boards becomes possible through the access left after the Side Cabinet has been removed.

### D. FRONT PANEL REMOVAL

- 1. Pull out the Mixing Level, Bass, and Treble Knobs (G).
- 2. Pull out the Balance and Rec Level L & R Knobs (H).
- 3. Pull out the Lid Assembly (I) on the cassette deck.



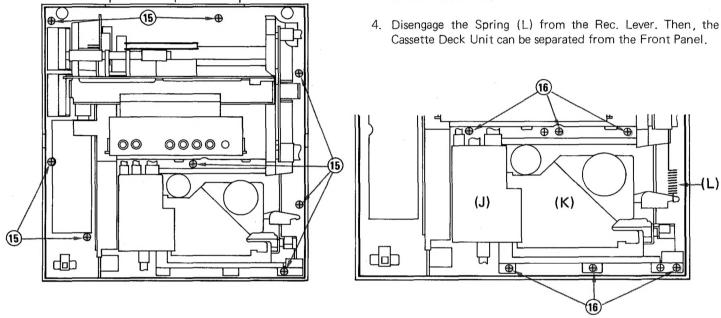


## **DISASSEMBLY INSTRUCTIONS (Continued)**

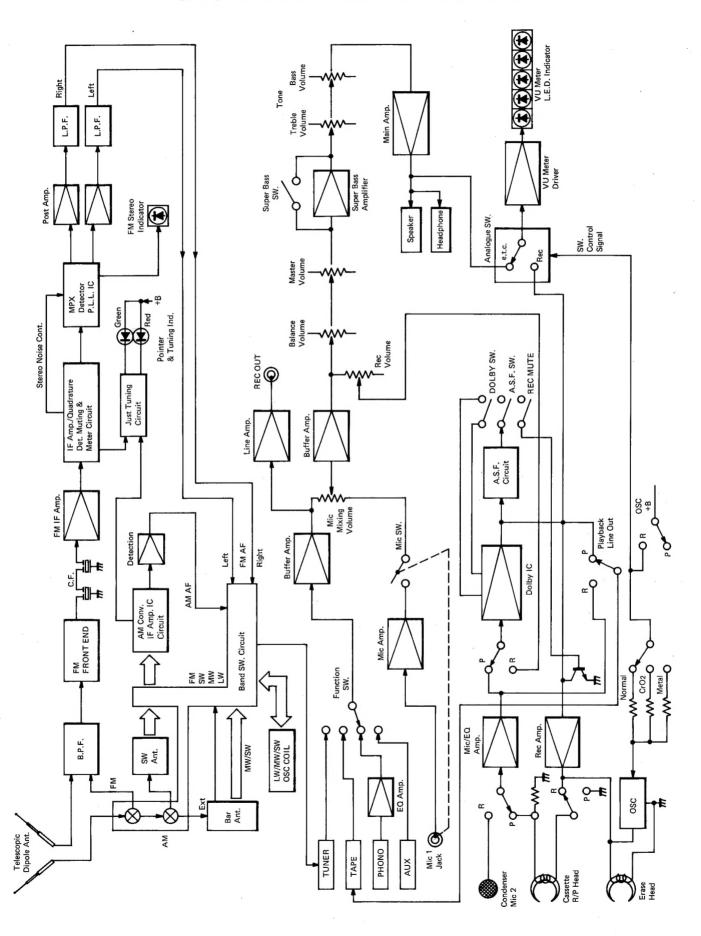
4. Remove the three screws (14) and the eight screws (15) securing the Front Panel. Then, the Front Panel can be completely separated from the unit.

#### E. CASSETTE DECK UNIT REMOVAL

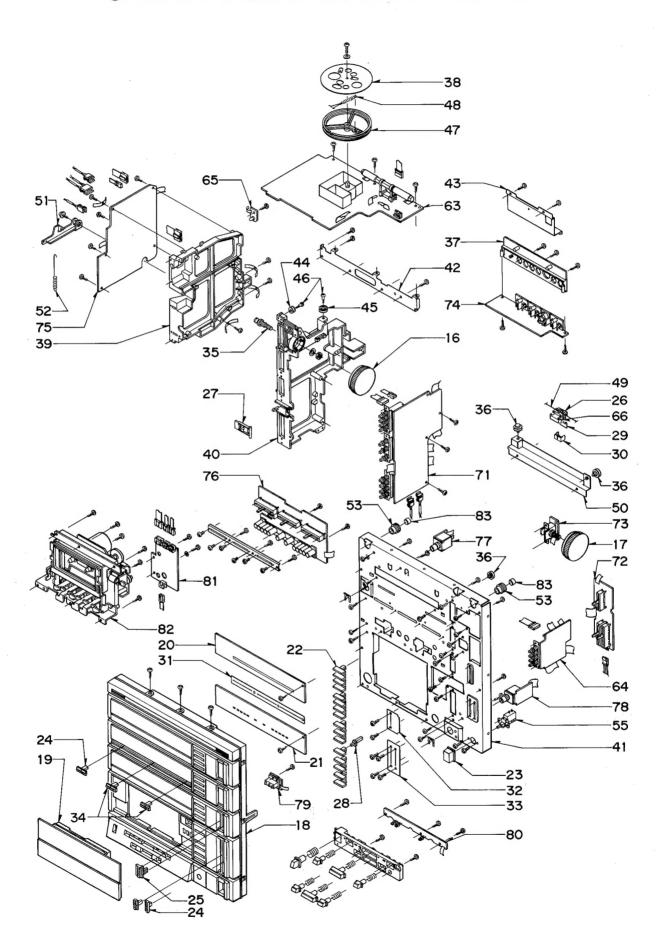
- Pull out the four connectors connected to the A.S.F. Control P.C.Board.
- 2. Pull out the two connectors (Colors of wires: white/red and blue) connected to the Cassette R/P P.C.Board.
- 3. Remove the six screws (16) securing the Cassette Deck (K) to the Front Panel.



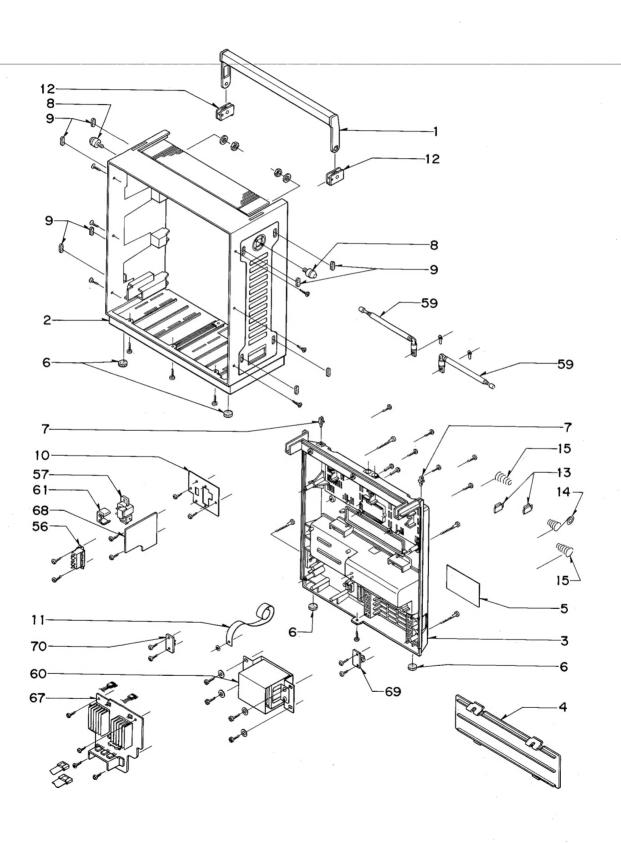
## **FUNCTIONAL BLOCK DIAGRAM**



# **CABINET & CHASSIS EXPLODED VIEW**

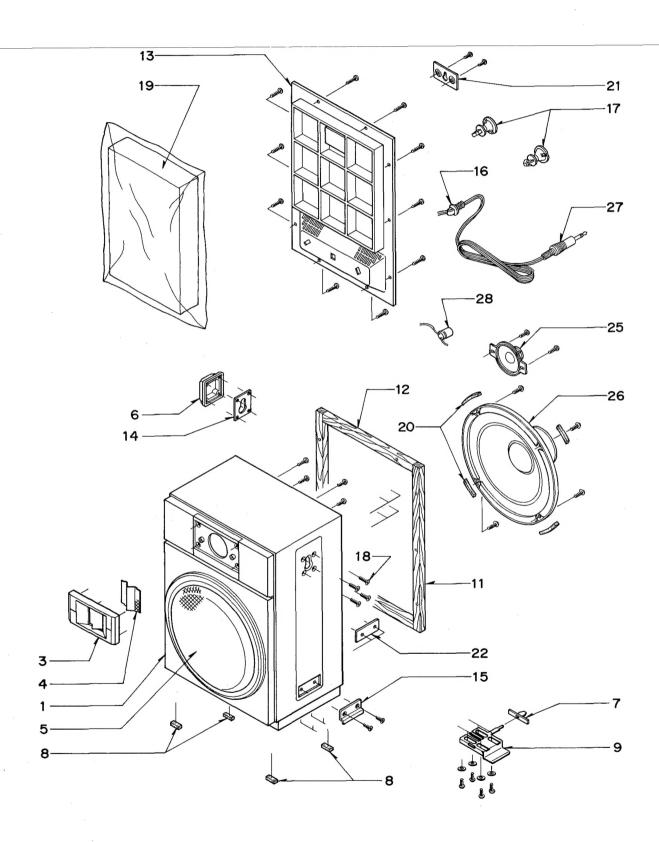


# CABINET & CHASSIS EXPLODED VIEW (Continued)



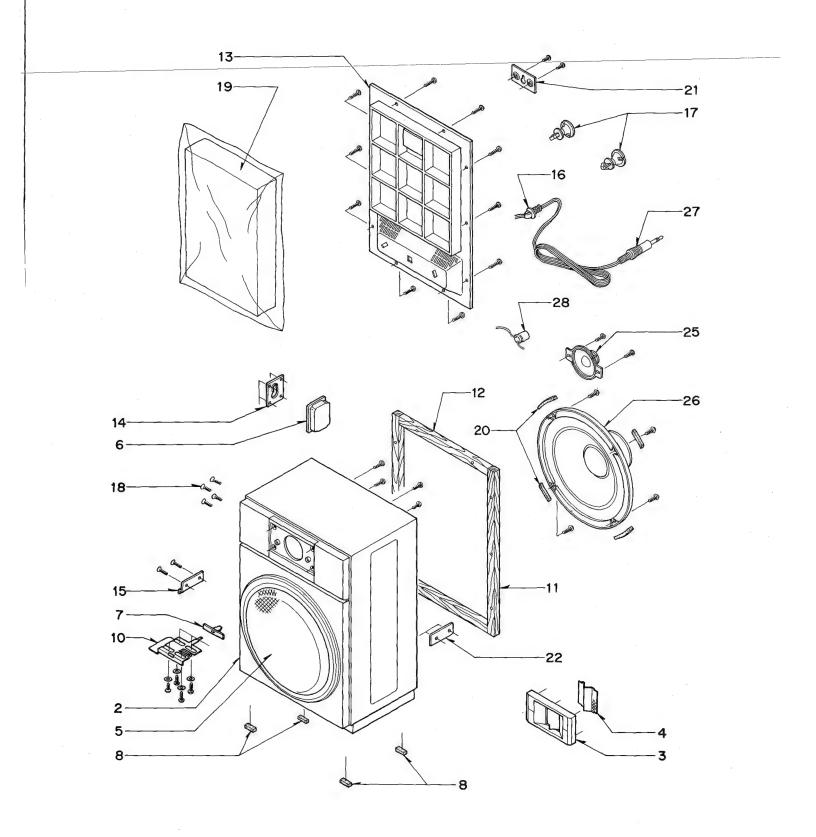
# SPEAKER BOX EXPLODED VIEW

(LEFT SPEAKER)



# SPEAKER BOX EXPLODED VIEW (Continued)

(RIGHT SPEAKER)



## PARTS LIST

#### **PACKING PARTS LIST**

Ref. No.	Parts Number	Description
	131 6 1169 02603	Box Corrugate-EXP
	131 6 2119 02080	Bag Polyethylene-EXP
		(Speaker Box 2)
	131 6 2119 02270	Bag Polyethylene-EXP (Unit)
	131 6 3009 32940	Pad (Bottom)
	131 6 3009 32950	Pad (Top)
	131 6 3009 32960	Pad (Speaker Center)

#### **ACCESSORIES PARTS LIST**

Ref. No.	Parts Number	Description
	4 2369 70216	Power Cord Plug
	4 2419 71254	Cassette
	4 2432 00290	Line Cord
	131 6 2719 10801	Bag Fan
	131 6 4159 35802	Notes
	131 6 4159 37200	
		Explanatory Booklet
	131 6 4519 15700	Guarantee Certificate
	141 2 3529 10600	Stopper Cassette

#### **CABINET PARTS LIST**

Parts Number	Description
131 0 1002 10400	Handle Assy
131 2 1101 46700	Cabinet (Side)
131 2 1101 46801	Cabinet (Rear)
131 2 1107 24400	Lid (Battery)
131 2 1310 39103	Name Plate
131 2 1801 15900	Leg
131 2 3602 12300	Holder Antenna
131 2 4219 15500	Shaft
131 2 5205 26700	Cushion
131 2 3701 29900	Mount Electric Part
141 2 2149 15000	Ribbon Battery
141 2 2719 13800	Holder Handle
141 2 3829 04300	Terminal Battery
141 2 3829 20000	Spring Battery
141 2 3829 20900	Spring Battery
	131 0 1002 10400 131 2 1101 46700 131 2 1101 46801 131 2 1107 24400 131 2 1310 39103 131 2 1801 15900 131 2 3602 12300 131 2 4219 15500 131 2 5205 26700 131 2 3701 29900 141 2 2149 15000 141 2 2719 13800 141 2 3829 04300 141 2 3829 20000

#### PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF AN UNIT. COMPONENTS INDICATED BY A MARK A IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAS SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT POINTED OUT BY THE MARK.

#### APPEARANCE PARTS LIST

Ref.	No.	Part	s Numb	er	Description
16		131	0 1001	61500	Knob (Tuning)
17		131	0 1001	61501	Knob (Volume)
18-	$\mathbf{T}$	131	0 1016	40702	Panel Decorative Assy
		131	2 1202	19802	Escutcheon Dial
	-	131	2 1205	26700	Decorative Plate Dial
	-	131	2 1207	12500	Housing (Cassette)
	-	131	2 1407	13700	Cover Decorative (Mic)
	-	131	2 1601	76400	Knob (F.F. REW, Rec)
	-	131	2 1601	76500	Knob (Play, Stop)
	-	131	2 1601	76600	Knob (Eject)
			2 4220		Ring Snap
	-	131	2 5 1 0 1	21000	Spring
		131	2 5 1 0 1	21100	Spring
19		131	0 2022	11400	Lid Assy
20		131	2 1201	37602	Plate Dial (Dial)
21		131	2 1201	37601	Plate Dial (Meter)
22		131	2 1601	75600	Knob (Push)
23		131	2 1601	75700	Knob (Power)
24		131	2 1601	75800	Knob (Slide Small)
25			2 1601		Knob (Slide Big)
26			2 4 1 0 1		Pointer
27			2 4123		Lever
28			2 4219		Shaft
29			2 5205		Cushion
30				31200	•
31			2 6113		Shelter (Mic Tone)
32				45800	
33		131	2 6113	45900	·
34		131	2 1601	75801	Knob (Slide Treble)

#### **CHASSIS PARTS LIST**

Ref. No.		Parts Number	Description
35		131 0 3003 22800	Shaft Dial Assy
36		131 0 3020 11000	Pulley Assy
37		141 0 3679 02501	Plate Jack Assy
38		131 2 3110 00800	Plate Pad Wire
39	*	131 2 3301 28500	Chassis (Left)
40	*	131 2 3301 28600	Chassis (Right)
41	*	131 2 3305 33100	Panel Front
42		131 2 3614 25900	Mount P.C.B.
43		131 2 3615 11000	Mount Terminal
44		131 2 4107 10200	Pulley
45		131 2 4107 10300	Pulley
46		131 2 4108 11200	Spindle Pulley
47		131 2 4109 11500	Drum
48		131 2 4111 00200	Spring Dial Cord
49		131 2 4112 10200	Dial Cord
50		131 2 4120 13500	Slide Rail Pointer
51		131 2 4123 00400	Lever (Record)
52		131 2 5101 21200	Spring (Record)
53		131 2 4459 24400	Holder Microphone

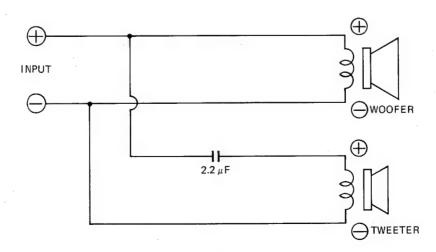
#### **ELECTRICAL PARTS LIST**

#### SPEAKERS BOX PARTS LIST

Ref.	f. No. Parts Number Description Ref.		Ref. No.	Parts Number	Description	
55	$\triangle$	4 2312 05030	Switch Push Power	1	131 2 1113 36200	Enclosure Speaker, Left
56	$\triangle$	4 2312 05390	Slide Switch	2	131 2 1113 36201	Enclosure Speaker, Right
-57	$\triangle$	4 2352 01460	AC/DC Power Socket	3	131 2 1116 20500	Frame (Tweeter)
59		4 2442 00060	Antenna	4	131 2 1402 38800	Net (Tweeter)
60	$\triangle$	4 2512 15720	Power Transformer	5	131 2 1402 38900	Net (Woofer)
61		141 2 4359 21300	Socket Cover (AC/DC Select)	6	131 2 1410 27100	Cover (Box Side)
63	*		RF, IF, MPX P.C.B. Assy	7	131 2 1601 77000	
64	*	131 0 4001 10290	Band SW. P.C.B. Assy	8	131 2 1801 16100	Leg
65	*	131 0 4001 10300	Stereo Ind. P.C.B. Assy	9	131 2 2305 11600	• -
66	*		Pointer/Tune P.C.B. Assy	10	131 2 2305 11601	
67	*	131 0 4001 08902	Main Amp, P.C.B. Assy	11	131 2 3205 11900	
68	*		Power Supply P.C.B. Assy	12	131 2 3205 11901	
69	*		Speaker Out R P.C.B. Assy	13	131 2 3306 34700	
70	*		Speaker Out L P.C.B. Assy	14	131 2 3310 16900	• •
71	*		Function & Control P.C.B. Assy	15	131 2 3310 17000	* *
72	*		Balance/Rec P.C.B. Assy	16	131 2 3608 15200	
73	*		Volume P.C.B. Assy	17	131 2 3608 15300	·
74	*		Phono EQ & RCA Terminal P.C.B. Assy	18	131 2 4201 27102	
75	*		Cassette R/P P.C.B. Assy	19 20	131 2 5203 24100	
76	*		01 10370 Tone Arm & VU Meter P.C.B. Assy		131 2 5206 13101	
77	*	131 0 4001 10380	Mic Jack P.C.B. Assy	21	141 2 3519 50400	
78	*		Headphone P.C.B. Assy	22	141 2 4119 01700	Nut Fix Speaker Box
79	*	131 0 4001 10400	ASF Ind. P.C.B. Assy			
80	*	131 0 4001 10410	Deck Mode Ind. P.C.B. Assy			
81	*	131 0 4001 09050	ASF Control P.C.B. Assy	SPEAK	ERS ELECTRICA	AL PARTS LIST
82	*		Cassette Deck Unit (ST-80TC)			
83			Microphone Condenser (Mic 2)	Ref. No.	Parts Number	Description
C01		C1HYDZ473A	Ceramic 0.047 $\mu$ F 50V +80,-20%	25	4 1512 01161	Speaker 5 cm (Tweeter)
D0.			L.E.D., LN224RP (Red)	26	4 1512 01280	Speaker 20 cm (Woofer)
D0:			L.E.D., LN324GP (Green)	27	131 0 4005 04500	Speaker Cord Assy
D03	3	DWW-LN424YP	L.E.D., LN424YP (Orange)	28	C1HAEM225P	Electrolytic 2.2 µF 50V ±20%

<sup>\*-</sup>Not a service part.

# **SPEAKER BOX SCHEMATIC DIAGRAM**



## **ELECTRICAL ADJUSTMENTS**

#### **FOUIPMENT REQURIED**

- Audio Signal Generator
- Attenuator
- Frequency Counter
- VTVM (2 sets)
- Dummy Load (47k-ohm)
- Dualtrace Synchroscope
- DC Voltage Regulator
- Test Tapes
  - \* 3kHz Test Tape (Example: TEAC MTT-111) for Tape Speed Adjustment
  - 10kHz Test Tape (Example: TEAC MTT-215C) for Head Azimuth Adjustment
  - \* Test Tape for DOLBY Calibration Level (Example: TEAC MTT-150) in Playback Gain Adjustment
- Test Tapes for Recording and Playback Operations
  - \* Normal Tape (Example: TDK AC-222)
  - \* Chromium Dioxide Tape (Example: TDK AC-512)
  - \* Metal Tape (Example: TDK AC-711)
- Alignment Tool

# Before the Electrical Adjustment, set the unit and measuring instruments as follows:

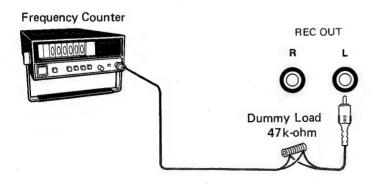
*	Function Switch TAPE
*	Dolby NR Switch OFF
*	Beat Switch
*	Tape Select Switch NORMAL
*	Record Level Controls Maximum
*	Audio Signal Generator Output 1kHz, 0dB (1V)
*	Voltage Regulator Output

#### NOTE

- Supply 15V DC to the unit from the Voltage Regulator at the adjustments.
- 2. The Electrical Adjustment should be performed in the order as described below.

#### TAPE SPEED ADJUSTMENT

1. Connect the frequency counter to the left or right channel REC OUT as illustrated. Then, insert a 3kHz test tape (Example: TEAC MTT-111) into the cassette compartment.

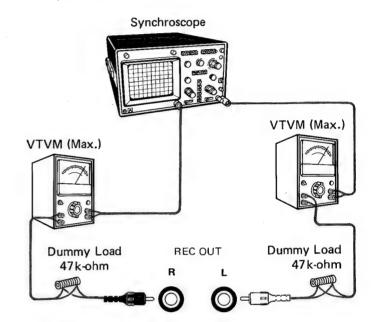


2. Adjust the tape speed by slowly turning the Adjusting Volume inside the motor until the frequency counter reads 3,000 Hz (±3%).

#### **HEAD AZIMUTH ADJUSTMENT**

- Remove the cassette compartment lid from the unit and connect the dualtrace synchroscope and the VTVM to both channel REC OUT as illustrated. Then, set the dualtrace synchroscope as follows:

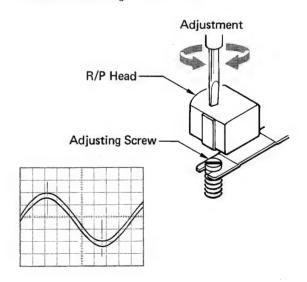
  - \* SWEEP MODE ..... AUTO (automatic)



#### NOTE:

Adjust the field on the synchroscope with the VOLT. ADJ. and TIME ADJ.

2. Insert a 10kHz test tape (Example: TEAC MTT-215C) into the cassette compartment. While playing back the test tape, turn the azimuth adjusting screw until the wave forms of the right and left channels are superimposed and set to optimum at maximum reading on the VTVM.



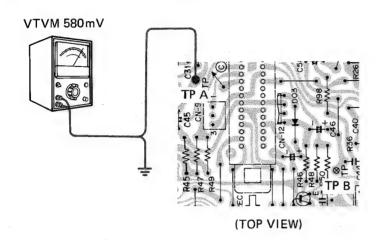
3. After the adjustment, secure the adjusting screw with paint or glue,

## **ELECTRICAL ADJUSTMENTS** (Continued)

#### PLAYBACK GAIN ADJUSTMENT

#### LEFT CHANNEL

1. Connect the VTVM to the test point TP-A as illustrated and insert a test tape for Dolby Calibration Level (Example: TEAC MTT-150) into the cassette compartment.



- 2. Check that the VTVM reads 580mV for the output of the left channel while playing back the test tape.
- 3. If necessary, adjust the output to the specified one by turning VR01 while the test tape is played back.

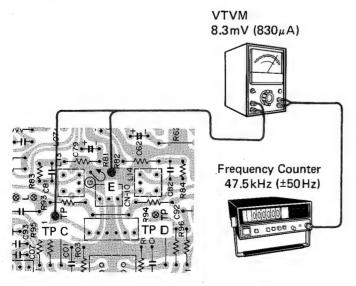
#### RIGHT CHANNEL

Connect the VTVM to the test point TP-B. Then, adjust VR02 for the right channel by following the same procedure as in LEFT CHANNEL.

# OSCILLATION FREQUENCY AND RECORDING BIAS ADJUSTMENT

#### **LEFT CHANNEL**

 Connect the VTVM to the test point TP-C and the frequency counter to the output terminals of the VTVM as illustrated.

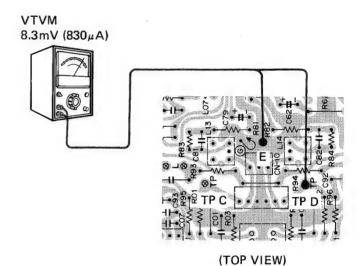


(TOP VIEW)

- 2. Insert a cassette tape into the cassette compartment and set the unit in the recording mode.
- 3. Turn the core of the oscillation transformer (L02) in the Function & Control P.C.Board with an alignment tool until the frequency counter reads 47.5kHz (±50Hz).
- 4. Set the Tape Select Switch to "METAL" and adjust VR01 in the Function & Control P.C.Board until the VTVM reads  $8.3 \,\mathrm{mV}$  ( $830 \,\mu\mathrm{A}$ ) with the unit in the recording mode.

#### RIGHT CHANNEL

Connect the VTVM to the test point TP-D as illustrated and adjust VR02 in the Function & Control P.C.Board by following the same procedure as in LEFT CHANNEL until the VTVM reads 8.3 mV ( $830 \mu \text{A}$ ).



\_ 15 **\_** 

## **ELECTRICAL ADJUSTMENTS** (Continued)

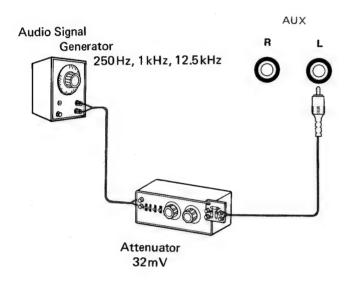
# RECORD & PLAY FREQUENCY RESPONSE ADJUSTMENT

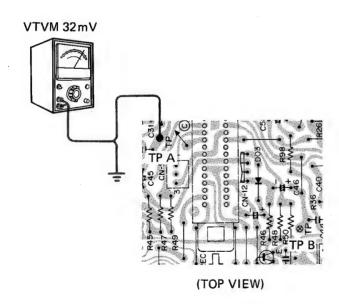
#### Normal Tape

Set the Tape Select Switch to "NORMAL" and insert a normal tape (Example: TDK AC-222) into the cassette compartment. Then, make the adjustment by the following procedures.

#### **LEFT CHANNEL**

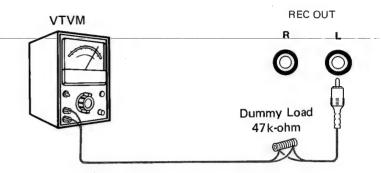
 Connect the audio signal generator and the attenuator to the left channel AUX, and the VTVM to the test point TP-A in the Cassette R/P P.C.Board as illustrated.





2. Alternately record the 250Hz, 1kHz, and 12.5kHz signals from the audio signal generator at 32mV on the tape several times.

3. Connect the VTVM to the left channel REC OUT as illustrated.



- 4. Perform the recording and playback operations with the DOLBY NR Switch turned off. Then, confirm that the play frequency response is within 250Hz±1.5dB and 12.5kHz±2.5dB to the base value (1kHz, 0dB). Also confirm that the same specification is obtained with the DOLBY NR Switch turned on.
- 5. If necessary, adjust the output by turning VR01 in the Function & Control P.C.Board and re-check the output of each signal by playing back the signals after recording operation of the signals.
- Repeat the above adjustment until the specified output is obtained.

#### **RIGHT CHANNEL**

Connect the audio signal generator and the attenuator to the right channel AUX, and the VTVM to the right channel REC OUT. Then, adjust VR02 in the Function & Control P.C.Board for the right channel by following the same procedure as in LEFT CHANNEL.

#### Chromium Dioxide Tape

Set the Tape Select Switch to "CrO2" and insert a chromium dioxide tape (Example: TDK AC-512) into the cassette compartment.

\* Record a signal on the tape and play it back by following the same procedures as in "Normal Tape". Then, the specified output will be obtained.

#### Metal Tape

Set the Tape Select Switch to "METAL" and insert a metal tape (Example: TDK AC-711) into the cassette compartment.

\* Record a signal on the tape and play it back by following the same procedures as in "Normal Tape". Then, the specified playback output will be obtained.

#### NOTE:

If the specified output was not obtained in the record & playback frequency response adjustment for chromium dioxide or metal tapes, repeat the adjustment beginning with the normal tape.

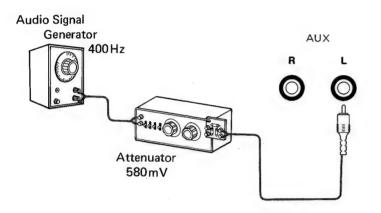
## **ELECTRICAL ADJUSTMENTS** (Continued)

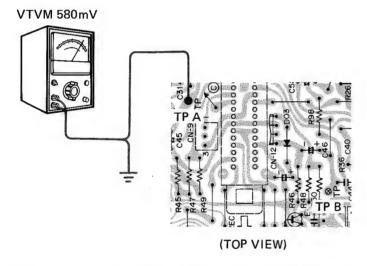
#### **RECORD & PLAYBACK GAIN ADJUSTMENT**

Set the Tape Select Switch to "METAL" and insert a metal tape (Example: AC-711) into the cassette compartment. Then, perform the adjustment by the following procedure.

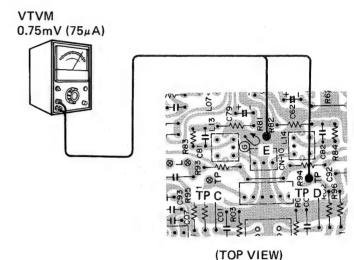
#### LEFT CHANNEL

- Connect the audio signal generator and the attenuator to the left channel AUX, and the VTVM to the test point TP-A as illustrated
- Pull out the connector of the orange wire (used for OSC+B), which is running to the Cassette R/P P.C.Board, to stop the bias current.





- 3. Record the 400 Hz signal at 580 mV from the audio signal generator on the tape.
- 4. Adjust the voltage of TP-C to 0.75mV with VR03, so that the recording current becomes  $75\mu$ A.



- 5. While playing back the recorded signal, check that the signal output is 580 mV on the VTVM.
- 6. If necessary, adjust VR03 and re-check the reading of the VTVM by playing back the signal after the recording operation for the signal.
- Repeat the above adjustment until the specified output is obtained.

#### **RIGHT CHANNEL**

Connect the audio signal generator and the attenuator to the right channel AUX, and the VTVM to the test point TP-B. Then, adjust VR04 for the right channel by following the same procedure as in LEFT CHANNEL.

#### LEVEL METER ADJUSTMENT

- Feed the signal of 400Hz from AUX. Adjust the Rec. Level VR or audio oscillator output, so that the output of TP-A and TP-B on the Cassette R/P P.C.Board becomes 490mV.
- Under the above condition, turn VR01 and VR02 on the VU Meter P.C.Board until the fourth LED in the Level Meter lights dimly.
- Change the input, so that the voltage of TP-A and TP-B becomes 580mV. Then, confirm that the fourth LED in the Level Meter is completely on. The fifth LED should not be on at this time.
- 4. Increase the input level. Then, confirm that the fifth LED lights up when the voltage of TP-A and TP-B becomes more than 700mV (approx.).

## **MECHANICAL ADJUSTMENTS**

#### **EQUIPMENT REQUIRED**

- Cassette-type Torquemeter (100g-cm/160g-cm)
- Silicone Grease (SHIN-ETSU SILICONE: KS-64)
- Round-nose Pliers
- Plus Screwdriver
- Paint or glue

#### **GENERAL REMARKS**

- Before adjusting the mechanism of the unit, clean the tape contacting surfaces with a soft cloth soaked in alcohol.
   Trouble may occur because of oil and grease stains.
- The belts must be kept clean while an adjustment or repair work is performed.
  - Silicone grease (SHIN-ETSU SILICONE KS-64) is applied to the Wind Belt to protect it from abrasion.
- Silicone grease is not applied to the wind belt for servicing.
- If the Pinch Roller or belt has quality deterioration such as scratches, replace it with a new one.
- This mechanism does not function when power is not supplied and any one of the buttons is pressed.
- The mechanism stops functioning soon when the cassette holder is opened and one of the select buttons (except for the Pause button) is pressed because the Eject Plate and the Lock Plate are locked by the Eject Lock Lever.
  - If the mechanism is required to function under this condition, push the Eject Lock Lever as illustrated, so that the Lever is released and the mechanism functions normally.

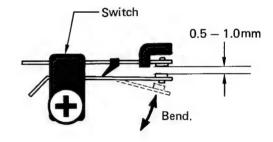
#### Position Adjustment of Leaf Switches

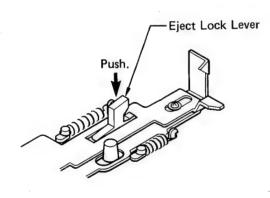
This model has the following five leaf switches. Checking and adjustment for each switch shall be conducted in accordance with each adjusting items. The unit should be set in the stop mode at each adjustment.

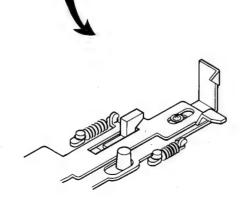
- \* Trigger Switch
- \* Motor Switch
- \* Pause Switch
- Play Muting Switch
- \* FF REW (ASF) Switch

#### NOTE

The clearance of the switch contacts should be  $0.5-1.0\,\mathrm{mm}$  when the switch is not mounted on the unit. If not, adjust the clearance by carefully bending the contacts.





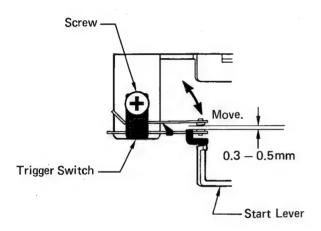


## MECHANICAL ADJUSTMENTS (Continued)

#### 1. Trigger Switch

This switch works as a trigger to make the mechanism function. When one of the select buttons (except for the Record button) is pressed, the trigger switch is turned on by the Start Lever, so that the Motor starts rotating. After that, this switch is turned off when the mechanism has completely finished its function.

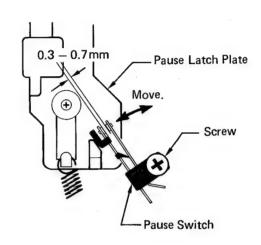
\* Check that the Trigger Switch touches the Start Lever and the clearance of the switch contacts is 0.3 – 0.5 mm.



#### 3. Pause Switch

This switch is used to light the LED which indicates the pause mode and is turned on or off by the Pause Latch Plate when the Pause button is pressed.

\* Check that the clearance of the switch contacts is 0.3 - 0.7 mm with the Pause Switch in contact with the Pause Latch Plate as illustrated.



#### 2. Motor Switch

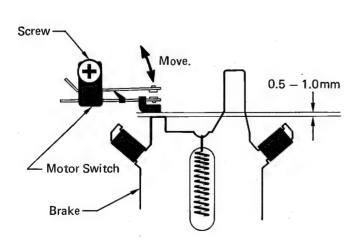
This switch is connected in parallel to the Trigger Switch. The driving motor rotates the Flywheel and the rotational force transfered by the Actuate Gear makes the mechanism function. Then, the motor switch is turned on by the brake.

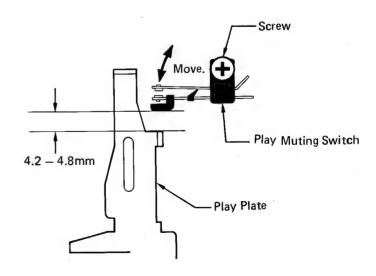
\* Check that the clearance between the Motor Switch and Brake is 0.5 — 1.0 mm.



This switch is turned on by the Play Plate when the unit is set in the recording or playback mode, and it turns off the muting circuit.

\* Check that the clearance between the Play Muting Switch and the Play Plate is 4.2 – 4.8 mm as illustrated.



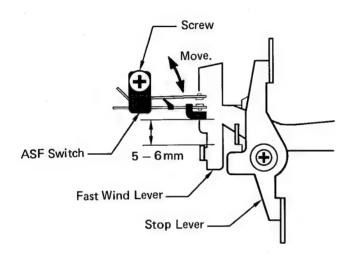


## MECHANICAL ADJUSTMENTS (Continued)

#### 5. FF REW (ASF) Switch

This switch is turned on by the Fast Wind Lever when the unit is set in the cue or review mode by pressing the F.FWD or Rewind button in the playback mode. It also passes current into the muting circuit and the solenoid. The ASF circuit is functioning and the transistor Q01 becomes conductive at this time.

\* Check that the clearance between the ASF switch and the Fast Wind Lever is 5 — 6mm as illustrated.

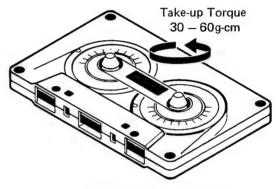


Loosen the screws fastening each switch and move the switches to the specified position if position adjustments are required.

After adjustment, tighten the screws and secure the switches with paint or glue.

#### Take-up Torque

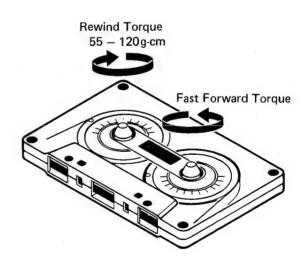
- 1. Insert a cassette-type torquemeter (100g-cm) into the cassette compartment and set the unit in the playback mode. Then, check that the take-up torque is 30 60g-cm.
- 2. If not, replace the Friction with a new one.



Cassette-type Torquemeter

#### F.FWD and Rewind Torques

1. Insert a cassette-type torquemeter into the cassette compartment and measure the fast forward and rewind torques. Check that each torque is 55 - 120g-cm.

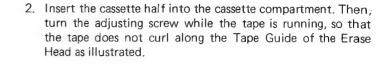


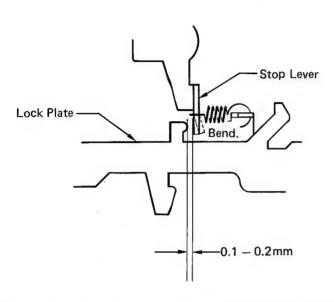
- 2. If more than the specified torque is obtained, apply a little amount of silicone grease (Example: KS-64) into the groove of the belt engaged in the Fast Wind Gear, rotate the Fast Wind Gear, and apply silicone grease to the Wind Belt.
- 3. If less than the specified torque is obtained, replace the Wind Belt with a new one and apply a little amount of silicone grease (Example: KS-64) to the Wind Belt in the same manner as in item 2.

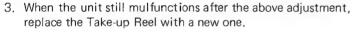
## MECHANICAL ADJUSTMENTS (Continued)

#### Mulfunction of Automatic Shut-off Mechanism

- 1. If the unit is set in the stop mode while the tape is running. check that the clearance between the Stop Lever and the Lock Plate is 0.1 - 0.2 mm as illustrated.
- 2. If necessary, adjust the clearance by bending the Stop Lever as illustrated.



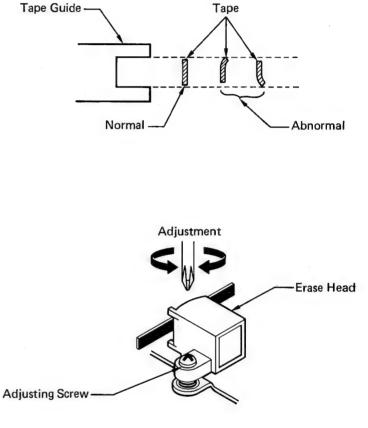






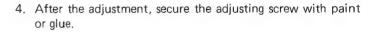
Whenever the Erase Head has been removed or replaced, perform the tape running condition adjustment as follows:

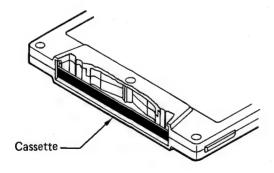
1. Cut the cassette half (Example: TDK C-120) as illustrated





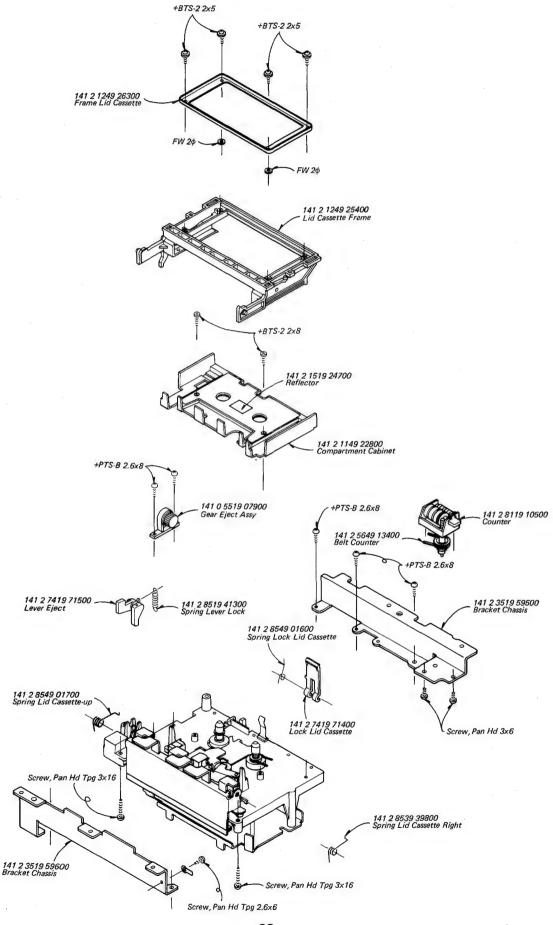
3. If necessary, adjust the screw until the tape is exactly centered in the Tape Guide of the Erase Head.





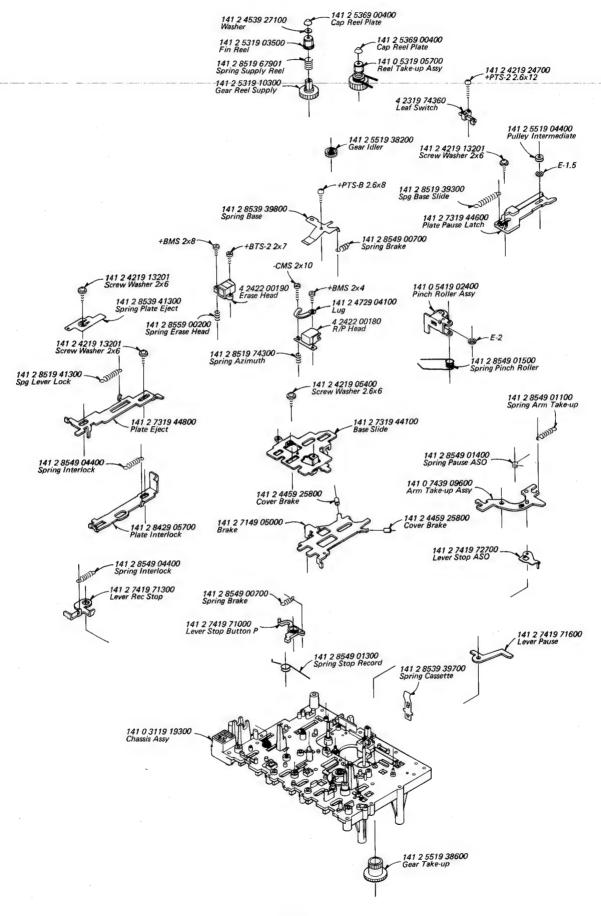
# CASSETTE DECK EXPLODED VIEW

(TOP VIEW 2-1)



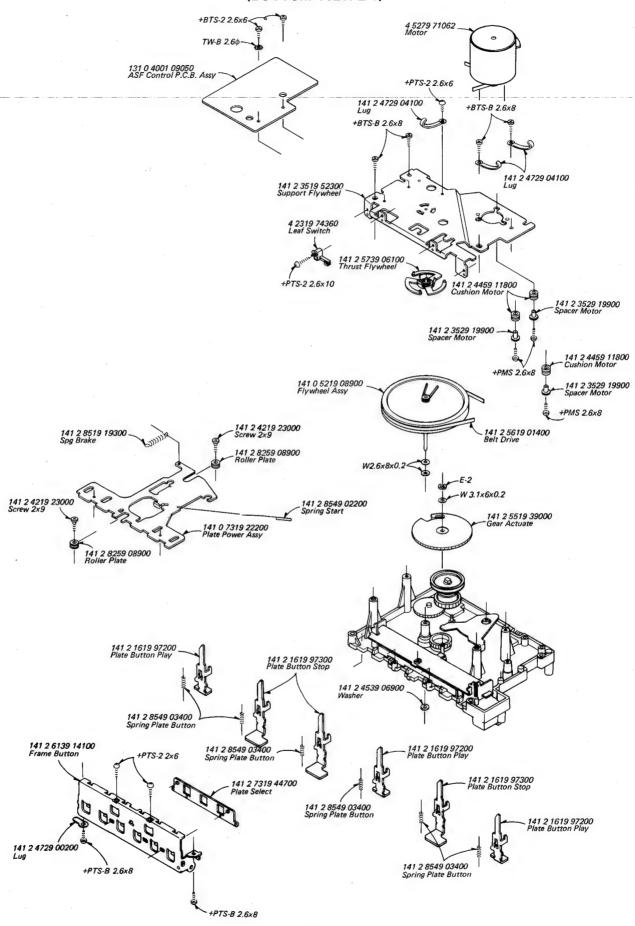
## CASSETTE DECK EXPLODED VIEW (Continued)

**(TOP VIEW 2-2)** 



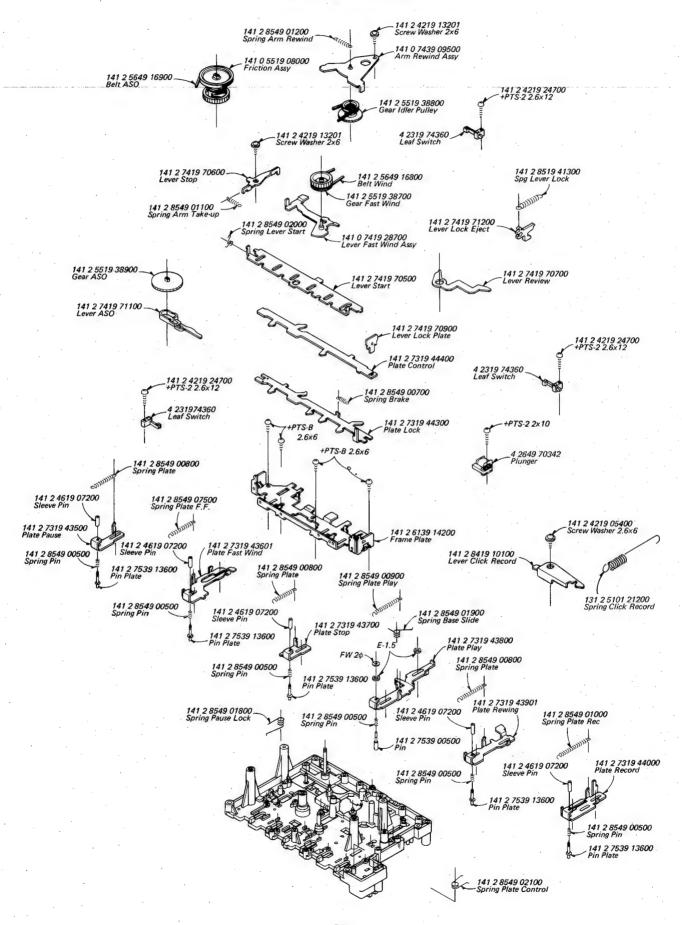
# CASSETTE DECK EXPLODED VIEW (Continued)

(BOTTOM VIEW 2-1)



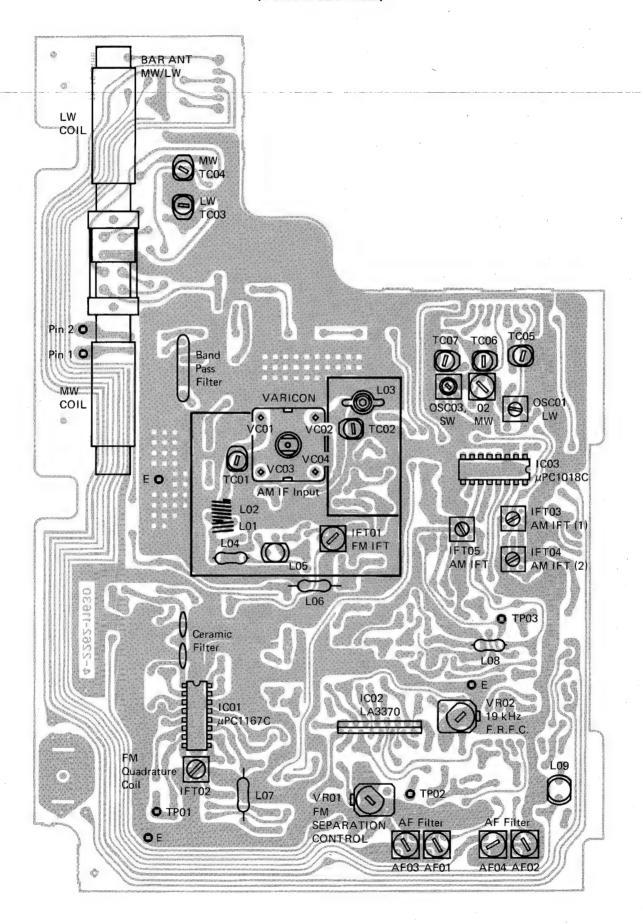
## CASSETTE DECK EXPLODED VIEW (Continued)

(BOTTOM VIEW 2-2)



## PRINTED CIRCUIT BOARD ALIGNMENT POINTS

(TUNER SECTION)



## RECOMMENDED TEST EQUIPMENTS

The following test equipment is recommended to completely test and align the tuner

- Line Voltage Isolation Transformer
- Accurately Calibrated AC Voltmeter
- Standard Signal Generator for AM
- Standard Signal Generator for FM
- IF Generator Scope
- Stereo Signal Generator
- Multiplex Generator

- Loop Antenna for AM
- Dummy Antenna (300 ohm, Balanced Type) for FM
- Dummy Antenna (10 P and 30 ohm) for SW
- Frequency Counter
- Distortion Meter
- Oscilloscope

#### **CONTROL SETTINGS:**

Volume Control ..... Maximum (AM-IF and RF, FM-RF); Minimum (FM-IF)

Treble Control ... Center
Bass Control ... Center
Balance Control ... Center
Tape Monitor Switch ... Source
Super Bass Switch ... Off

## **AM TUNER ALIGNMENT**

#### **MW ALIGNMENT**

#### Standard test frequency 400 Hz and Modulation 30% at AM

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. IF ALIGN- MENT	Connect 455 kHz IF gene-scope output to VC03 and ground terminal. Use 0.1 µF capacitor in series with generator lead.	Position of non- interference Minimum Frequency	Connect IF gene- scope input to TP03, and ground terminal.	Adjust IFT03 (White), IFT04 (Yellow), and IFT05 (Black) for maximum gain and best symmetry. Keep signal low enough for noise on response.
2. MW (RF) TRACKING ALIGN- MENT (600 kHz)	Connect standard loop antenna to output terminal of gene-scope. Place bar antenna 60 cm away from loop antenna. Generator setting to 600 kHz	Center of 600 kHz calibration mark on dial	Connect AC VTVM and Oscillo- scope to REC OUT jack.	Adjust MW OSC02 and AM Antenna (MW) for maximum gain output.
3. (1400 kHz)	Change generator setting to 1400 kHz.	Center of 1400 kHz calibration mark on dial	Same as above	Adjust TC06 (OSC) and TC04 (ANT.) for maximum deflection. Repeat steps (2) and (3) until optimum alignment is reached.

# AM TUNER ALIGNMENT (Continued)

#### LW ALIGNMENT

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. LW (RF) TRACKING ALIGN- MENT (150 kHz)	Connect standard loop antenna to output terminal of gene-scope. Place bar antenna 60 cm away from loop antenna. Generator setting to 150 kHz	Center of 150 kHz calibration-mark on dial	Connect AC VTVM and Oscilloscope to REC OUT jack.	Adjust LW OSC01 and LW -Antenna Coil for maximum gain output.
2. (350 kHz)	Change generator setting to 350 kHz.	Center of 350 kHz calibration mark on dial	Same as above	Adjust TC05 (OSC) and TC03 (ANT.) for maximum deflection. Repeat steps (1) and (2) until optimum alignment is reached.

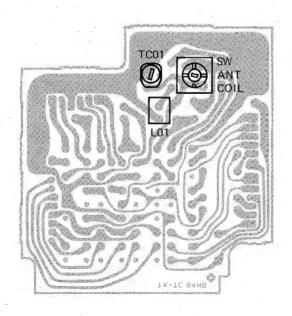
#### **SW ALIGNMENT**

#### DUMMY ANTENNA 30 ohm/10 p

ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE
1. SW (RF) TRACKING ALIGN- MENT (6 MHz)	Connect AM RF generator through SW Dummy Ant. to Ant. terminals (Pin 1 and 2). Set generator to 6 MHz.	Center of 6 MHz calibration mark on dial	Connect AC VTVM and Oscilloscope to REC OUT jack.	Adjust SW OSC03 and SW Antenna Coil in the Band SW P.C.Board for maximum gain output.
2. (17 MHz)	Change generator setting to 17 MHz.	Center of 17 MHz calibration mark on dial	Same as above	Adjust TC07 (OSC) and TC01 (ANT.) in the Band SW P.C.Board for maximum deflection. Repeat steps (1) and (2) until optimum alignment is reached.

<sup>\*</sup> Use a screwdriver with plastic grip for all adjustments.

# BAND SW. P.C.BOARD ALIGNMENT POINT



## **FM TUNER ALIGNMENT**

Standard test frequency 1 kHz and deviation ±75 kHz

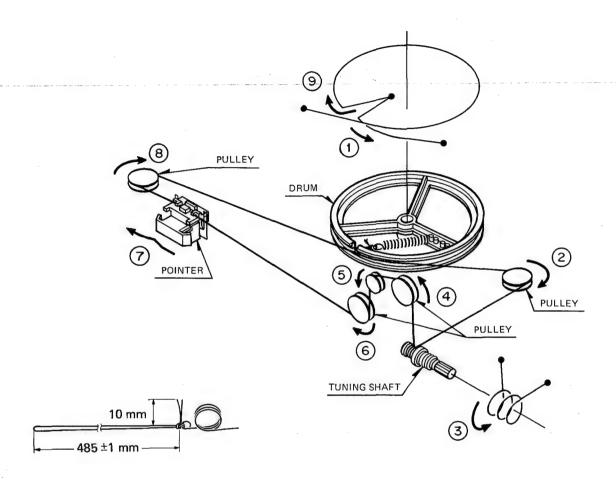
Standard test frequency 1 KHz and deviation 275 KHz									
ITEM	GENERATOR	DIAL SETTING	INDICATOR	PROCEDURE					
	ivity, the IF must be aligne			bandpass. To insure symmetrical pass, rather than to 10.7 MHz as					
1. IF ALIGN- MENT	Connect 10.7 MHz IF gene-scope output to VC01 and ground terminal.	Position of non- interference Minimum frequency	Connect IF gene- scope input to TP01.	Adjust IFT01 and IFT02 for maximum gain and best symmetry.					
2. FRONT END ALIGN- MENT		Tuning knob fully counter-clockwise		Place center of dial pointer on "0" (zero) and secure pointer with bonding material.					
3. FRONT END ALIGN- MENT (88 MHz)	Connect FM RF generator through FM Dummy Ant. to FM ANT. terminals (Pin 1 and Pin-2). Set generator to 88 MHz, Modulate with 1 kHz to provide ±40 kHz deviation. Set generator output with attenuator as low as possible.	Center of 88 MHz calibration mark on dial	Connect AC VTVM, Distortion Meter, and Oscillo- scope to REC OUT jack.	Adjust FM OSC Coil (L03) and FM RF Coil (L02) for best waveform and minimum distortion.					
4. (108 MHz)	Change generator setting to 108 MHz.	Center of 108 MHz calibration mark on dial	Same as above	Adjust TC02 (OSC) and TC01 (RF) for best waveform and deflection.					
	ns 3 and 4, and confirm tha Then, set generator to 98 M			nsitivity is obtained at each ly set on the dial plate.					
5. PILOT FREQUENCY ADJUST- MENT		Position of non- interference	Connect Frequency Counter to TP02 and ground terminal.	Adjust VR02 until Frequency Counter indicates 19 kHz±50 Hz.					
6. FM STEREO SIGNAL SEP- ARATION CONTROL ADJUST- MENT	Connect FM Stereo SG to Ant. terminals (Pin 1 and Pin 2). 19 kHz signal ON. Main channel, sub channel signal ON. Apply 1000 Hz signal from LEFT Channel.	Same as above	Connect AC VTVM, Distortion Meter and Oscillo- scope to RIGHT Channel REC OUT jack.	Adjust VR01 for minimum output.  Note: Do not turn Low Pass Filter					
	Same as above RIGHT Channel		Same as above LEFT Channel	as already adjusted.					

<sup>\*</sup> Use a screwdriver with plastic grip for all adjustments.

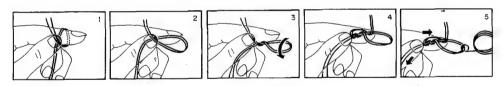
**CAUTION:** 

This precision high-fidelity instrument should be serviced only by qualified personnel, trained in the repair of transistor equipment and printed circuitry.

# **DIAL CORD STRINGING**



#### **CORD KNOTTING**



**NOTE:** Check to see that the dial cord is correctly strung by turning the dial.

# **PARTS LIST**

# RF, IF, MPX P.C.B. Assy 131 0 4001 10280

Ref. No.	Parts Number	Description	Ref. No.	Parts Number	Description
	4 2242 00210	Variable Condenser		CAPACITORS	
CF01,02		Ceramic Filter (FM IF)	C27,28	C1CC7N223YPA	Ceramic 0.022 µF 16V ±30%
*		Plug 6P	29,30	01002112201171	301dillio 3.322 pt 10 v 23070
	4 2362 00660		31,32		
		Earth Terminal	C33	C1CRE-107A	Electrolytic 100 μF 16V
		Band Pass Filter Bar Antenna AM	C34	C1ERY-475APA	Electrolytic 4.7 μF 25V
AF01,02		AF Filter (White)	C35	C1HRE-105A	Electrolytic $1 \mu F 50V$
AF03,04		AF Filter (Black)	C36	C1CRE-227A	Electrolytic 220 µF 16V
IFT01	4 2562 00370		C37	C1ERE-475AL	Electrolytic $4.7 \mu F 25V$ Electrolytic $10 \mu F 25V$
IFT02		FM IFT (Q Coil)	C38 C39	C1HCZNAZZYPA	Electrolytic $10 \mu F 25V$ Ceramic 0.0047 $\mu F 50V \pm 30\%$
IFT03	4 2562 00390		C40		Ceramic 0.0047 $\mu$ T 30V ±30%
IFT04	4 2562 00400		C41	C1ERY-475APA	Electrolytic 4.7 $\mu$ F 25V
IFT05	4 2562 00410		C42	C1HRY-335APA	Electrolytic 3.3 µF 50V
L01		RF Loading Coil	C43	C1HRE-105A	Electrolytic 1 µF 50V
L02 L03	4 2592 00150 4 2582 00550		C44	C1HSEJ102A	Styrol 1000 pF 50V ±5%
L03		Choke Coil (220 µH)	C45,46	C1HFRK153A	Mylar $0.015 \mu\text{F} 50V \pm 10\%$
L05		Choke Coil (1.2 μH)	C47,48	C1ERE-475A	Electrolytic 4.7 µF 25V
L06,07		Choke Coil (220 µH)	C49,50	C1HRE-105A C1HFRK332A	Electrolytic $1 \mu F 50V$ Mylar $0.0033 \mu F 50V \pm 10\%$
L08	4 2532 00040	Choke Coil (1 mH)	C51,52 C53,54	C1CRY-476APA	Electrolytic $47 \mu F 16V$
L09		Choke Coil (39 mH)	C55,54	C1ARE-107A	Electrolytic $100 \mu\text{F}$ $10\text{V}$
OSC01	4 2582 00560		C56	C1CRE-227A	Electrolytic 220 µF 16V
OSC02		MW OSC Coil	C57	C1CCZN223YPA	Ceramic 0.022 µF 16V ±30%
OSC03 TC01,02	4 2582 00540	Trimmer 10 pF	C61	C1HCYK330APA	
TC01,02		Trimmer 20 pF	C62	C1HCYC050APA	·
TC04		Trimmer 10 pF	C63	C1CCZN223YPA	
TC05		Trimmer 20 pF	C64 C65	C1HSEJ121A C1HSEJ361A	Styrol 120 pF 50V ±5% Styrol 360 pF 50V ±5%
TC06,07	4 2242 00200	Trimmer 10 pF	C66	C1HSEJ382A	Styrol 360 pF 50V ±5% Styrol 3800 pF 50V ±5%
VR01	4 2222 01040		C67	C1HCDK470CH	Ceramic 47 pF 50V ±10%
VR02	4 2222 01400	VR 10k-B	C68	C1HCDD100CH	Ceramic 10 pF 50V ±0.5%
	CARACITORS		C69	C1HCDC050CH	Ceramic 5 pF 50V ±0.25%
	CAPACITORS		C70,71		Ceramic $0.022 \mu F$ $16V \pm 30\%$
C01		Ceramic 100 pF 50V ±5%	C72		Ceramic 0.022 µF 50V +80,-20%
C02	C1HCZM1R8SPA	Ceramic 1.8 pF 50V ±20% Ceramic 1000 pF 50V ±10%	C73		Ceramic 10000 pF 25V ±20% Ceramic 2200 pF 50V ±20%
C03 C04	C1HCDJ200CH	Ceramic 1000 pr 50V ±10%	C74 C75		Ceramic 0.022 µF 50V ±20%
C05	C1HCZK4R7SPA	· · · · · · · · · · · · · · · · · · ·	C76	C1CRE-476A	Electrolytic 47 $\mu$ F 16V
C06		Ceramic 330 pF 50V ±10%	C77,78	C1HYDZ103A	Ceramic $0.01 \mu\text{F}  50\text{V}  +80,-20\%$
C07		Ceramic 0.0047 µF 50V ±30%	C79	C1ARE-226A	Electrolytic 22 µF 10V
C08	C1CCZN223YPA	Ceramic 0.022 µF 16V ±30%	C80	C1CRE-106A	Electrolytic 10 µF 16V
C09	C1HCDJ120CH	Ceramic 12 pF 50V ±5%	C81	C1HFRK223A	Mylar $0.022 \mu\text{F} 50V \pm 10\%$
C10	C1HCDJ150CH	Ceramic 15 pF 50V ±5%	C82	C1HRY-474APA	Electrolytic 0.47 µF 50V
C11	C1HCDD100CH	Ceramic 10 pF 50V ±0.5%	C83		Mylar $0.027 \mu F 50V \pm 10\%$ Electrolytic $220 \mu F 10V$
C12 C13	C1HCDK220PH C1HCDC030CH	Ceramic 22 pF 50V ±10% Ceramic 3 pF 50V ±0.25%	C84 C85	C1ARE-227A	Ceramic $0.0015 \mu\text{F} 50V \pm 30\%$
C14,15		Ceramic 0.022 µF 16V ±30%	C86	C1HYDZ103A	Ceramic 0.01 $\mu$ F 50V +80,-20%
16	0100211220777		C87	C1CCZN223YPA	
C17	C1HCZM010SPA	Ceramic 1.0 pF 50V ±20%	C88	C1HRE-105A	Electrolytic 1 µF 50V
C18		Ceramic 2200 pF 50V ±20%	C89	C1CCZN223YPA	
C19,20	C1CCZN223YPA	Ceramic 0.022 $\mu$ F 16V ±30%	C90	C1CRE-336A	Electrolytic 33 µ F 16V
21	041101/ 405 45 4	EL	C91		Ceramic 0.022 µF 50V +80,-20%
C22	C1HRY-105APA	Electrolytic 1 $\mu$ F 50V Ceramic 330 pF 50V ±10%	C92	C1HYDZ473A	Ceramic 0.047 µF 50V +80,—20%
C23 C24		Electrolytic 3.3 $\mu$ F 50V	C93 C94	C1HCYK220APA	Ceramic 0.022 µF 50V +80,—20% Ceramic 22 pF 50V ±10%
C25		Ceramic 0.022 µF 16V ±30%	C34	CHICINZZUAFA	- Cordinio 22 μι σον ±10/0
C26		Electrolytic 3.3 µF 50V			

Ref. No.	. Parts Number	Descript	tion				Ref. No.	Parts Number	Descript	ion		
	SEMICONDUCTO	ORS						RESISTORS				
D01	DXX-ITT410	Diode, I					R52	R2EDZJ330APA	Carbon	33	1/4W	
D02,03	202 5 9110 18820						R53	R2CDZJ681APB	Carbon	680	1/6W	±5%
D04,05	205 5 9040 44210						R54	R2CDZJ5R6APB		5.6	1/6W	±5%
IC01	INN-MPC1167C2						R55	R2EDZJ123APA	Carbon	12k	1/4W	
1C02	206 5 0603 37010						R56 R57	R2EDUJ101A R2EDZJ222APA	Carbon	100 2.2k	1/4W 1/4W	±5% ±5%
IC03	INN-MPC1018C TNN-2SK195-E2	IC,μPC FET 2S		г р			R58	R2CDUJ103APB	Carbon Carbon	2.2k 10k	1/4VV 1/6W	±5%
Q01 Q02	TNN-2SK 195-E2						R59	R2CDUJ222APB	Carbon	2.2k	1/6W	±5%
Q02,04	TNN-2SC1674-K						R60	R2CDZJ473APB	Carbon	47k	1/6W	±5%
Q05,04 Q05	203 5 5000 53660						R61	R2EDZJ473AFA	Carbon	4.7k	1/4W	±5%
Q06,07	203 5 5251 57170						R62	R2CDZJ394APB	Carbon	390k	1/6W	±5%
Q08,07	203 5 5000 53670						R63	R2CDZJ331APB	Carbon	330	1/6W	±5%
Q09	TNN-2SC1675-K	TR 2SC					R64	R2CDZJ681APB	Carbon	680	1/6W	±5%
Q10,11	203 5 5000 53650						R65	R2EDZJ104APA	Carbon	100k	1/4W	±5%
Q12	203 5 5000 53660			1			R66	R2EDZJ100APA	Carbon	10	1/4W	±5%
2.2	200 0 0000 0000	111.200	.,.				R67	R2EDZJ151APA	Carbon	150	1/4W	±5%
	RESISTORS						R68	R2CDZJ274APB	Carbon	270k	1/6W	±5%
DO1		Carloon	1004	1////	J.E0/		R69	R2CDZJ122APB	Carbon	1.2k	1/6W	±5%
R01 R02	R2EDZJ184APA R2EDZJ101APA		180k 100	1/4W	±5%		R70	R2CDZJ391APB	Carbon	390	1/6W	±5%
R03			100 1M	1/4W 1/4W	±5% ±5%		R71	R2EDZJ562APA	Carbon	5.6k	1/4W	±5%
R04	R2EDZJ105APA				±5%		R72	R2EDZJ683APA	Carbon	68k	1/4W	±5%
R05	R2EDZJ562APA	Carbon	5.6k 330	1/4W			R73	R2CDZJ102APB	Carbon	1k	1/6W	±5%
R06	R2EDZJ331APA R2EDZJ684APA	Carbon		1/4W	±5%		R74	R2CDZJ562APB	Carbon	5.6k	1/6W	±5%
R07		Carbon	680k	1/4W	±5%		R76	R2EDZJ471APA	Carbon	470	1/4W	±5%
R08	R2EDZJ562APA	Carbon	5.6k	1/4W	±5%		R77	R2EDZJ103APA	Carbon	10k	1/4W	±5%
R09,10	R2EDZJ822APA		8.2k	1/4W	±5%		R78	R2CDZJ223APB	Carbon	22k	1/6W	±5%
R11	R2EDZJ124APA	Carbon Carbon	120k 330	1/4W	±5% ±5%		R79	R2EDZJ122APA	Carbon	1.2k	1/4W	±5%
R12	R2EDZJ331APA R2EDZJ684APA	Carbon	680k	1/4W 1/4W	±5%		R80	R2CDZJ681APB	Carbon	680	1/6W	±5%
R13	R2EDZJ331APA	Carbon	330	1/4W	±5%							
R14	R2EDZJ331APA	Carbon	100	1/4W	±5%							
R15	R2EDZJ561APA	Carbon	560	1/4W	±5%			WITCH P.C.B. Assy				
R16,17	R2EDZJ331APA	Carbon	330	1/4W	±5%		131 0 40	01 10290				
R18	R2EDZJ683APA	Carbon	68k	1/4W	±5%		D ( N					
R19	R2EDZJ562APA	Carbon	5.6k	1/4W	±5%		Het. No.	Parts Number	Descripti	ion		
R20	R2EDZJ563APA	Carbon	56k	1/4W	±5%			4 2312 03210		ush 4Key	/	
R21	R2EDZJ333APA	Carbon	33k	1/4W	±5%			4 2362 00370				
R22	R2EDZJ103APA	Carbon	10k	1/4W	±5%			4 2572 00160				
R23	R2EDZJ473APA	Carbon	47k	1/4W	±5%		L01	4 2532 00430			⊣)	
R24	R2EDZJ222APA	Carbon	2.2k	1/4W	±5%		TC01	4 2242 00270	Trimmer	10 pF		
R25	R2EDZJ103APA	Carbon	10k	1/4W	±5%							
R26	R2EDZJ471APA	Carbon	470	1/4W	±5%			CAPACITORS				
R27	R2EDZJ392APA	Carbon	3.9k	1/4W	±5%		C01	C1CCZN223YPA	Ceramic	0.022 μF	16V	±30%
R28	R2EDPJ330A	Carbon	33	1/4W	±5%		C02	C1HCYD100APA	Ceramic	10 pF	50V	±0.5%
R29	R2EDZJ123APA	Carbon	12k	1/4W	±5%		C03	C1HCDK150SL	Ceramic	15 pF	50V	±10%
R30	R2EDZJ333APA	Carbon	33k	1/4W	±5%		C04	C1HCYC050APA	Ceramic	5 pF	50V	±0.25%
R31	R2EDZJ102APA	Carbon	1k	1/4W	±5%		C05	C1HYYZ223APA	Ceramic	0.0 <mark>2</mark> 2 μF	50V	+80,-20%
R32	R2EDZJ124APA	Carbon	120k	1/4W	±5%							
R33	R2EDZJ102APA	Carbon	1k	1/4W	±5%			RESISTOR				
R34	R2EDZJ123APA	Carbon	12k	1/4W	±5%		R01	R2EDZJ560APA	Carbon	56	1/4W	±5%
R35,36	R2EDZJ392APA	Carbon	3.9k	1/4W	±5%		1101	11220200071171	Garbon	00	1, 100	-070
R37,38	R2EDZJ394APA	Carbon	390k	1/4W	±5%							
R39,40	R2EDZJ332APA	Carbon	3.3k	1/4W	±5%			IND. P.C.B. Assy				
R41,42	R2EDZJ122APA	Carbon	1.2k	1/4W	±5%		131 0 40	01 10300				
R43,44	R2EDZJ332APA	Carbon	3.3k	1/4W	±5%							
R45	R2EDZJ271APA	Carbon	270	1/4W	±5%		Ref. No.	Parts Number	Descript	ion		
R46	R2EDPJ100A	Carbon	10	1/4W	±5%			SEMICONDUCTO	R			
R47,48	R2EDPJ4R7A	Carbon	4.7	1/4W	±5%		D01			N D E 41.1	D / D - 1	11
R51	R2EDZJ5R6APA	Carbon	5.6	1/4W	±5%	- 32	D01	DYY-SLR-54UR	∟.⊑.U., S	5LM-54U	n (Red	)

# POINTER/TUNE P.C.B. Assy 131 0 4001 10310

Ref. No.	Parts Number	Description	Ref. No.	Parts Number	Description			
SEMICONDUCT		R		RESISTORS				
D01		L.E.D., SLP-532D	R11,12 R21,22 R23	R2EDZJ330APA R3AXBJ221A R2HXPK5R6A	Oxide Metal Film 220 $$ 1W $\pm 5\%$ Oxide Metal Film 5.6 1/2W $\pm 10\%$			
	MP. P.C.B. Assy 01 08902		R24,25 26	R3AXPK5R6A	Oxide Metal Film 5.6 1W ±10%			
Ref No	Parts Number	Description	R27 R28	R2EDPJ151APA R2EDZJ121APA				
1161, 140.	4 2362 00080 4 2362 00400 4 2362 00500	Plug 3P Plug 7P Plug 9P Radiator Power IC	R29 R30 R31 R32	R2EDPJ121A R2EDZJ121APA R2EDPJ181A R2EDZJ151APA	Carbon 120 1/4W ±5% Carbon 120 1/4W ±5% Carbon 180 1/4W ±5%			
	CAPACITORS			SUPPLY P.C.B. Assy 01 08912	1			
C01,02	C1HRE-105A	Electrolytic 1 $\mu$ F 50V	131 0 40	01 00912				
C03,04 C05,06	C1HCZK471BPA C1ARE-107A	Ceramic 470 pF 50V ±10% Electrolytic 100 µF 10V		Parts Number	Description			
C07,08 C09,10 C11,12	C1HRE-104AL C1HCDD070SL C1CRY-107APA	Electrolytic $0.1 \mu F 50V$ Ceramic $7 pF 50V \pm 0.5\%$ Electrolytic $100 \mu F 16V$	Δ	4 2349 21570 4 2352 00200 4 2362 00660	Fuse Clip			
C13,14 C15,16	C1HFRJ154ML C1ERY-106APA	Mylar $0.15 \mu F 50V \pm 5\%$ Electrolytic $10 \mu F 25V$		CAPACITORS				
C17,18 C19,20	C1HYDZ223A C1ERE-107A	Ceramic 0.022 $\mu$ F 50V +80,-20% Celectrolytic 100 $\mu$ F 25V		C1HYDZ473A	Ceramic 0.047 µF 50V +80,-20%			
C21 C22	C1HCDD070SL C1HCDK150SL	Ceramic 7 pF $50V \pm 0.5\%$ Ceramic 15 pF $50V \pm 10\%$	C05	4 2232 00670	Electrolytic 4700 μF 25V ±20%			
C23,24	C1CRY-107APA	Electrolytic 100 µF 16V		SEMICONDUCTO	RS			
C25,26 C27,28 C29,30	C1HFRJ154ML C1CRE-107A C1CRE-108A	Mylar $0.15 \mu F$ 50V $\pm 5\%$ Electrolytic $100 \mu F$ 16V Electrolytic $1000 \mu F$ 16V	D01 ⚠ D02 ⚠	202 5 2720 04015 202 5 2350 15010				
31,32 C33	C1ERY-106APA	Electrolytic 10 μF 25V		RESISTOR				
C34 C35	C1CRY-476APA C1ERE-107A	Electrolytic $47 \mu F$ $16V$ Electrolytic $100 \mu F$ $25V$	R01	R3AXBJ1R0A	Oxide Metal Film 1.0 1W ±5%			
C36 C37 C38 C39	C1CRY-107APA C1CRY-476APA C1ERE-107A C1ERY-106APA	Electrolytic $100 \mu F$ $16V$ Electrolytic $47 \mu F$ $16V$ Electrolytic $100 \mu F$ $25V$ Electrolytic $10 \mu F$ $25V$		R OUT RIGHT P.C. 001 08920	B. Assy			
C40	C1CRY-476APA	Electrolytic 47 µF 16V	Ref. No.	Parts Number	Description			
C41	C1ERE-107A	Electrolytic 100 μF 25V		4 2352 01190	Jack 3P			
	SEMICONDUCTO		CDEVKE	R OUT LEFT P.C.B	A Acesy			
D01,02 D03,04 D05		Zener Diode, GZA11U Zener Diode, GZA9.1U		001 08930	. Assy			
IC01,02	206 5 1364 12626	IC, LA4126T (Stereo)	Ref. No.	Parts Number	Description			
Q01,02 Q07,08 09	203 5 4921 01270 203 5 7330 61250			4 2352 01190	Jack 3P			
	RESISTORS	,						
R01,02 R03,04 R05,06 R07,08 R09,10	R2EDZJ472APA R2EDZJ102APA R2EDZJ224APA R2EDZJ103APA R2EDZJ100APA	Carbon 1k 1/4W ±5% Carbon 220k 1/4W ±5% Carbon 10k 1/4W ±5%						

# FUNCTION & CONTROL P.C.B. Assy 131 0 4001 10320

Ref. No.	Parts Number	Description	Ref. No.	Parts Number	Description		
	4 2312 03220	Switch Push 4Key		SEMICONDUCTO	•		
		Switch Push 3Key	Q01,02	203 5 5251 57160		E	
		Switch Push 4Key	Q03	203 5 6850 40050			
	4 2362 00040		Q04,05	203 5 6850 40050			
	4 2362 00370		Q04,03	203 5 5000 53660			
CN01	131 0 4006 22201	Cord Assy	08,09	200 0 0000 00000	111 2000001	, 0	
CN03	131 0 4006 22273		Q10	203 5 5251 57060	TR 2SC1570	F.G	
CN04	131 0 4006 22268		Q11,12	203 5 5000 53660			
CN05	131 0 4006 22233		13,14			, -	
CN06	131 0 4006 22270						
CN07	131 0 4006 22271			RESISTORS			
L01 L02	4 2532 00110	OSC Coil CST	R01,02	R2CDZJ102APB	Carbon 1	k 1/6W	±5%
VR01	4 2222 00300		R03,04	R2CDZJ224APB	Carbon 220		±5%
VR02	4 2222 00300		05,06				
V1102	+ 2222 00000	VII TOOK B	R07,08	R2CDZJ334APB	Carbon 330	k 1/6W	±5%
	CAPACITORS		R09,10	R2CDZJ472APB	Carbon 4.7		±5%
CO1 02		Electrolytic 0.47 μF 50V	R11,12	R2CDZJ104APB	Carbon 100	k 1/6W	±5%
C01,02 C03,04	C1HRY-474LPA C1ERY-475APA	Electrolytic 4.7 µF 25V	13,14				
C05,04	C1HRY-105APA	Electrolytic $4.7 \mu F 25V$ Electrolytic $1 \mu F 50V$	R15	R2EDZJ471APA	Carbon 47		±5%
C07,00	C1HRE-105A	Electrolytic $1 \mu F = 50V$	R16,17	R2EDPJ390A	Carbon 3		±5%
C08	C1HRY-105APA	Electrolytic $1 \mu F$ 50V	R18,19	R2CDZJ183APB	Carbon 18		±5%
C09	C1CRE-107A	Electrolytic 100 µF 16V	R20,21	R2CDZJ822APB	Carbon 8.2		±5%
C10	C1CRY-106APA	Electrolytic 10 µF 16V	R22 R23	R2CDZJ332APB R2CDZJ103APB	Carbon 3.3 Carbon 10		±5%
C11,12	C1CRY-476APA	Electrolytic 47 µF 16V	R24,25	R2CDZJ103APB	Carbon 100		±5% ±5%
C13	C1ERE-475A	Electrolytic 4.7 µF 25V	26,27	1120D20104A1 B	Carbon 100	K 1/000	±0/0
C14	C1ERY-475APA	Electrolytic 4.7 µF 25V	R28,29	R2CDZJ472APB	Carbon 4.7	k 1/6W	±5%
C15,16	C1CRY-106APA	Electrolytic 10 µF 16V	R30	R2CDZJ561APB	Carbon 56		±5%
C17,18	C1HFRJ124ML	Mylar $0.12 \mu\text{F}$ 50V $\pm 5\%$	R31,32	R2EDZJ152APA	Carbon 1.5		±5%
19,20			R33,34	R2EDZJ473APA	Carbon 47		±5%
C21,22	C1ERY-475APA	Electrolytic 4.7 µF 25V	R35,36	R2EDZJ394APA	Carbon 390	k 1/4W	±5%
C23	C1ARY-227APA	Electrolytic 220 µF 10V	R37,38	R2EDZJ474APA	Carbon 470		±5%
C24	C1CRY-476APA	Electrolytic 47 µF 16V	R39,40	R2EDZJ392APA	Carbon 3,9		±5%
C25 C26	C1ERY-475APA	Electrolytic $4.7 \mu F$ $25V$ Ceramic $0.01 \mu F$ $50V$ $+80,-20\%$	R41,42	R2CDZJ473APB	Carbon 47		±5%
C27	C1CRE-336A	Electrolytic $33 \mu F 16V$	R43	R2EDZJ122APA	Carbon 1.2		±5%
C28	C1CRY-106APA	Electrolytic 10 $\mu$ F 16V	R44,45 R46	R2CDZJ562APB	Carbon 5.6		±5%
C29		Ceramic 0.01 µF 50V +80,-20%	R47	R2EDZJ101APA R2EDZJ103APA	Carbon 10 Carbon 10		±5% ±5%
C30	C1CRE-476A	Electrolytic 47 µF 16V	R48	R2EDPJ101A	Carbon 10		±5%
C31	C1HRY-105APA	Electrolytic 1 µF 50V	R49	R2CDZJ472APB	Carbon 4.7		±5%
C32	C1CRY-106APA	Electrolytic 10 µF 16V	R50,51	R2EDZJ101APA	Carbon 10		±5%
C33	C1HFRK472A	Mylar $0.0047 \mu\text{F}$ $50\text{V}$ $\pm 10\%$	R52	R2CDZJ333APB	Carbon 33		±5%
C34		Mylar $0.0047 \mu\text{F} 50\text{V} \pm 10\%$	R53	R2CDZJ101APB	Carbon 100	0 1/6W	±5%
C35	C1HFYK103APA	· ·	R54	R2CDZJ103APB	Carbon 10		±5%
C36 C37	C1HFRK333A C2BSEK472A	Mylar 0.033 μF 50V ±10% Styrol 4700 pF 125V ±10%	R55	R2EDZJ122APA	Carbon 1.2		±5%
C38	C1HFYK123APA		R56	R2EDZJ102APA	Carbon 1		±5%
C39	C1CRY-476APA	Electrolytic $47 \mu F 16V$	R57	R2CDZJ101APB	Carbon 100		±5%
C40	C1HCDK221SL	Ceramic 220 pF 50V ±10%	R58	R2CDZJ223APB	Carbon 22		±5%
C41	C1HCYK221APA		R59	R2CDZJ103APB	Carbon 10I		±5%
,			R60 R61	R2HXBJ151A	Oxide Metal F		
	SEMICONDUCTO	RS	R62,63	R2HXBJ820A R2CDZJ183APB	Oxide Metal F Carbon 18		±5% ±5%
D01		Zener Diode, GZA9.1U	R64	R2EDUJ5R6A	Carbon 5.6		±5%
D01,03	205 5 9040 44210		R65,66	R2CDZJ103APB	Carbon 10		±5%
04,05		5,555,55 112	R67	R2EDZJ103APA	Carbon 10		±5%
06,07			R68,69	R2CDZJ103APB	Carbon 10		±5%
08			R70		Carbon 47		±5%
IC01	IPP-MSM4053RS	IC, MSM4053RS	R71,72		Carbon 10		±5%
IC02,03	IYY-BA223	IC, BA223					

# BALANCE/REC P.C.B. Assy | 31 0 4001 10330

Ref. No.	Parts Number	Description			Ref. No.	Parts Number	Description				
	4 2222 02320	VR 200k-Wx1				RESISTORS					
	4 2222 02350				R01,02	R2CDZJ104APB	Carbon	100k	1/6W	±5%	
	4 2362 00040	Plug 3P			R03,04	R2CDZJ102APB	Carbon	1k	1/6W	±5%	
					R05,06	R2CDZJ271APB	Carbon	270	1/6W	±5%	
	CAPACITORS				R07,08	R2CDZJ682APB	Carbon	6.8k	1/6W	±5%	
201,02	C1HCYK471APA				R09,10	R2CDZJ104APB	Carbon	100k	1/6W	±5%	
203,04	C1HFYK563APA				11,12						
205,06		Mylar $0.047 \mu F 50V \pm 10\%$ Electrolytic $4.7 \mu F 25V$			R13,14	R2EDZJ333APA	Carbon	33k	1/4W	±5%	
207,08	C1ERY-475APA				15,16	D05074504 A D A	0 1	F.00	4 (4)41	. 50/	
209	C1ARY-227APA	Electrolytic 220	)μΗ ΙΟ	V	R17	R2EDZJ561APA	Carbon	560	1/4W	±5%	
	SEMICONDUCTO	RS			R18 R19,20	R2EDZJ221APA R2CDZJ102APB	Carbon Carbon	220 1k	1/4W 1/6W	±5% ±5%	
224.02					R21,22	R2CDZJ154APB	Carbon	150k	1/6W	±5%	
201,02	203 5 5251 57170	1R 2SC15/1 G			R23,24	R2CDZJ393APB	Carbon	39k	1/6W	±5%	
	DECICEODO				R25,26	R2CDZJ332APB	Carbon	3.3k	1/6W	±5%	
	RESISTORS				R27,28	R2CDZJ122APB	Carbon	1.2k	1/6W	±5%	
R01,02	R2EDZJ472APA		1/4W	±5%	R29,30	R2CDZJ104APB	Carbon	100k	1/6W	±5%	
R03,04	R2EDZJ822APA	Carbon 8.2k	1/4W	±5%	R31,32	R2CDZJ224APB	Carbon	220k	1/6W	±5%	
R05,06	R2CDZJ102APB	Carbon 1k	1/6W	±5%	R33,34	R2CDZJ334APB	Carbon	330k	1/6W	±5%	
R07,08 R09,10	R2CDZJ474APB R2CDZJ394APB	Carbon 470k Carbon 390k	1/6W 1/6W	±5% ±5%							
R11,12	R2CDZJ394AFB	Carbon 3.9k	1/6W	±5%	CASSET	TE R/P P.C.B. Assy					
R13,14	R2CDZJ473APB	Carbon 47k	1/6W	±5%		01 10360					
R15,16	R2EDZJ103APA	Carbon 10k	1/4W	±5%							
R17	R2EDZJ102APA	Carbon 1k	1/4W	±5%	Ref. No.	Parts Number	Descript	ion			
						4 2312 03240	Switch S	lide 18			
						4 2362 00080		mac 10			
	E P.C.B. Assy					4 2362 00370					
131 0 40	01 10340					4 2362 00410					
D. ( M-	Desta Noveless	Di4:				4 2362 00440	Plug 3P				
Het. No.	Parts Number						0				
		Description				4 2362 00660	Pin 1P				
	4 2222 02360	VR 100k-Bx2				4 2362 00660 4 2369 22800	Pin 1P Plug 6P				
		VR 100k-Bx2	art		CN12	4 2362 00660 4 2369 22800 131 0 4006 22222	Pin 1P Plug 6P Cord Ass				
	4 2222 02360	VR 100k-Bx2	art		L01,02	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610	Pin 1P Plug 6P Cord Ass AF Coil	(6.8 mH		J2)	
PHONO	4 2222 02360 131 2 3701 30100	VR 100k-Bx2 Mount Electric P	art		L01,02 L03,04	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150	Pin 1P Plug 6P Cord Ass AF Coil AF Filte	(6.8 mH r (DOLE	3Y, 47 kł		
	4 2222 02360 131 2 3701 30100 EQ & RCA TERMIN	VR 100k-Bx2 Mount Electric P	art		L01,02 L03,04 L05,06	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2522 00160	Pin 1P Plug 6P Cord Ass AF Coil AF Filte AF Filte	(6.8 mH r (DOLE r (DOLE	3Y, 47 kł		
	4 2222 02360 131 2 3701 30100	VR 100k-Bx2 Mount Electric P	art		L01,02 L03,04 L05,06 L07,08	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2522 00160 4 2552 00200	Pin 1P Plug 6P Cord Ass AF Coil AF Filte AF Filte Coil (8.2	(6.8 mH r (DOLE r (DOLE ! mH)	3Y, 47 kl 3Y, 38 kl		
131 0 40	4 2222 02360 131 2 3701 30100 EQ & RCA TERMIN	VR 100k-Bx2 Mount Electric P	art		L01,02 L03,04 L05,06	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2522 00160	Pin 1P Plug 6P Cord Ass AF Coil AF Filte AF Filte Coil (8.2	(6.8 mH r (DOLE r (DOLE ! mH)	3Y, 47 kl 3Y, 38 kl		
131 0 40	4 2222 02360 131 2 3701 30100 EQ & RCA TERMIN 01 10350 Parts Number	VR 100k-Bx2 Mount Electric P IAL P.C.B. Assy Description	art		L01,02 L03,04 L05,06 L07,08 L09,10	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2522 00160 4 2552 00200	Pin 1P Plug 6P Cord Ass AF Coil AF Filte AF Filte Coil (8.2 AF Coil	(6.8 mH r (DOLE r (DOLE ! mH) (6.8 mH	3Y, 47 kt 3Y, 38 kt )	Hz)	
131 0 40	4 2222 02360 131 2 3701 30100 EQ & RCA TERMIN 01 10350 Parts Number 4 2352 01490	VR 100k-Bx2 Mount Electric P IAL P.C.B. Assy Description DIN Socket 5P	art		L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00160 4 2522 00160 4 2552 00200 4 2552 00610 4 2552 00580 4 2229 25100	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil AF Coil VR 47k-	(6.8 mH r (DOLE r (DOLE ! mH) (6.8 mH (Bias Tra B	3Y, 47 kt 3Y, 38 kt )	Hz)	
131 0 40	4 2222 02360 131 2 3701 30100 EQ & RCA TERMIN 01 10350 Parts Number	VR 100k-Bx2 Mount Electric P IAL P.C.B. Assy Description DIN Socket 5P	art		L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2522 00160 4 2552 00200 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil AF Coil VR 47k- VR 47k-	(6.8 mH r (DOLE r (DOLE ! mH) (6.8 mH (Bias Tra B B	3Y, 47 kt 3Y, 38 kt )	Hz)	
131 0 40	4 2222 02360 131 2 3701 30100 EQ & RCA TERMIN 01 10350 Parts Number 4 2352 01490	VR 100k-Bx2 Mount Electric P IAL P.C.B. Assy Description DIN Socket 5P	art		L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230	Pin 1P Plug 6P Cord Ass AF Coil AF Filte AF Coil (8.2 AF Coil VR 47k- VR 47k- VR 10k-	(6.8 mH r (DOLE r (DOLE ! mH) (6.8 mH (Bias Tra B B B×1	3Y, 47 kt 3Y, 38 kt )	Hz)	
131 0 40 Ref. No.	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS	VR 100k-Bx2 Mount Electric P JAL P.C.B. Assy Description DIN Socket 5P 2P Jack		V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2522 00160 4 2552 00200 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100	Pin 1P Plug 6P Cord Ass AF Coil AF Filte AF Coil (8.2 AF Coil VR 47k- VR 47k- VR 10k-	(6.8 mH r (DOLE r (DOLE ! mH) (6.8 mH (Bias Tra B B B×1	3Y, 47 kt 3Y, 38 kt )	Hz)	
131 0 400 Ref. No.	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4			L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230	Pin 1P Plug 6P Cord Ass AF Coil AF Filte AF Coil (8.2 AF Coil VR 47k- VR 47k- VR 10k-	(6.8 mH r (DOLE r (DOLE ! mH) (6.8 mH (Bias Tra B B B×1	3Y, 47 kt 3Y, 38 kt )	Hz)	
131 0 40 Ref. No.	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p	7µF 25 F 50V	±10%	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 47k- VR 10k- VR 10k-	(6.8 mH r (DOLE r (DOLE ! mH) (6.8 mH (Bias Tra B B Bx1 Bx1	8Y, 47 kł 8Y, 38 kł ) ap, 47 kł	Hz)	
131 0 400 Ref. No.	4 2222 02360 131 2 3701 30100 EQ & RCA TERMIN 01 10350 Parts Number 4 2352 01490 4 2359 73601 CAPACITORS C1ERY-475LPA C1HCYK820APA	VR 100k-Bx2 Mount Electric P  IAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33	7μF 25 F 50V 3μF 10	±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2522 00160 4 2552 00200 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- Ceramic	(6.8 mH r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1	8Y,47 kł 8Y,38 kł ) ap,47 kł F 50V	Hz) Hz) ±10%	
131 0 400 Ref. No. C01,02 C03,04 C05,06	4 2222 02360 131 2 3701 30100 EQ & RCA TERMIN 01 10350 Parts Number 4 2352 01490 4 2359 73601 CAPACITORS C1ERY-475LPA C1HCYK820APA C1ARY-336APA	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 µ Mylar 0.039 µ	7 µF 25 F 50V 3 µF 10 F 50V F 50V	±10% V ±10% ±10%	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2522 00160 4 2552 00200 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k-	(6.8 mH r (DOLE r (DOLE ! mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pt	8Y,47 kt 3Y,38 kt ) ap,47 kt 50V DµF 25	Hz) Hz) ±10% V	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HCYK820APA C1HFYK103APA C1HFYK103APA C1HFYK393APA C1HRY-474APA	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01  Mylar 0.039  Electrolytic 0.43	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCYK820APA	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- Ceramic Electroly Ceramic	(6.8 mH r (DOLE r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10	F 50V D µ F 25 F 50V	±10% V ±10%	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HCYK820APA C1HFYK103APA C1HFYK103APA C1HFYK393APA C1HRY-474APA C1CRY-107APA	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 \( \mu\) Mylar 0.039 \( \mu\) Electrolytic 0.43 Electrolytic 0.43 Electrolytic 100	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCY K820APA C1HCD K330SL	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- Ceramic Electroly Ceramic Ceramic	(6.8 mH r (DOLE r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 82 pl 33 pi	F 50V DµF 25 F 50V F 50V F 50V	±10% V ±10% ±10% ±10%	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HCYK820APA C1HFYK103APA C1HFYK103APA C1HFYK393APA C1HRY-474APA	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 \( \mu\) Mylar 0.039 \( \mu\) Electrolytic 0.43 Electrolytic 0.43 Electrolytic 100	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCY K820APA C1HCD K330SL C1CRE-106A	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- Ceramic Electroly Ceramic Electroly	(6.8 mH) r (DOLE r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 82 pl 33 pi /tic 10	F 50V DµF 25 F 50V DµF 16 F 50V F 50V DµF 16	±10% V ±10% V	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HCYK820APA C1HFYK103APA C1HFYK103APA C1HFYK393APA C1HRY-474APA C1CRY-107APA	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 \( \mu\) Mylar 0.039 \( \mu\) Electrolytic 0.43 Electrolytic 0.43 Electrolytic 100	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10 C11,12	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2552 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCY K820APA C1HCD K330SL C1CRE-106A C1ARY-476APA	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- Ceramic Electroly Ceramic Electroly Electroly Electroly	(6.8 mH) r (DOLE r (DOLE mH) (6.8 mH) (Bias Tra B B Bx1 Bx1 680 pl /tic 10 82 pl 33 pi /tic 10 /tic 47	F 50V D µ F 25 F 50V D µ F 16 T µ F 10	±10% V ±10% ±10% V V	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HCYK820APA C1HFYK103APA C1HFYK103APA C1HFYK393APA C1HRY-474APA C1CRY-107APA C1ERY-475APA	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 µ Mylar 0.039 µ Electrolytic 0.43 Electrolytic 100 Electrolytic 4.7	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCY K820APA C1HCD K330SL C1CRE-106A	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- Ceramic Electroly Ceramic Electroly	(6.8 mH) r (DOLE r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 82 pl /tic 10 /tic 47 /tic 47	F 50V D µF 25 F 50V D µF 16 7 µF 10 D µF 16	±10% V ±10% ±10% V V	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 17,18	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HFYK103APA C1HFYK103APA C1HFYK393APA C1HRY-474APA C1CRY-107APA C1ERY-475APA  SEMICONDUCTO	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 µ Mylar 0.039 µ Electrolytic 0.4 Electrolytic 100 Electrolytic 4.7 RS	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 C17,18	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2552 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCY K820APA C1HCD K330SL C1CRE-106A C1ARY-476APA C1CRE-477A C1HFR K822A C1HCZJ100SPA	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil  AF Coil  VR 47k- VR 10k- VR 10k-  Ceramic Electroly Ceramic Electroly Electroly Mylar C Ceramic	(6.8 mH) r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 /tic 47 /tic 47 0.0082 µ 10 pl	F 50V F 50V D µF 25' F 50V F 50V D µF 16' 7 µF 10 D µF 16' F 50V F 50V F 50V	±10% V ±10% ±10% V V V V ±5%	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 17,18	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HFYK103APA C1HFYK393APA C1HFYK393APA C1HFYK393APA C1HRY-474APA C1CRY-107APA C1ERY-475APA  SEMICONDUCTO IYY-BA328	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 µ Mylar 0.039 µ Electrolytic 0.43 Electrolytic 100 Electrolytic 4.7  RS  IC, BA328	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 C17,18 C19,20	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCYK820APA C1HCDK330SL C1CRE-106A C1ARY-476APA C1CRE-477A C1HFRK822A C1HCZJ100SPA C1HCZJ100SPA C1HFYK153APA	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil  AF Coil  VR 47k- VR 10k- VR 10k-  Ceramic Electroly Ceramic Electroly Electroly Mylar  Ceramic Mylar	(6.8 mH) r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 /tic 47 /tic 47 0.0082 µ 10 pl 0.015 µ	F 50V F 50V D µF 25' F 50V F 50V D µF 16' T µF 10' D µF 16' F 50V F 50V F 50V	±10% V ±10% ±10% V V V ±10% ±5% ±10%	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 17,18	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HFYK103APA C1HFYK103APA C1HFYK393APA C1HRY-474APA C1CRY-107APA C1ERY-475APA  SEMICONDUCTO	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 µ Mylar 0.039 µ Electrolytic 0.43 Electrolytic 100 Electrolytic 4.7  RS  IC, BA328	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 C17,18 C19,20 C21,22	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2552 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCY K820APA C1HCD K330SL C1CRE-106A C1ARY-476APA C1CRE-477A C1HFR K822A C1HCZJ100SPA C1HFY K153APA C1HFY K153APA C1HFR K152A	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- VR 10k- Ceramic Electroly Ceramic Electroly Electroly Mylar Mylar Mylar Mylar	(6.8 mH) r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 /tic 47 /tic 47 0.0082 µ 10 pl 0.0015 µ	F 50V F 50V D µF 25' F 50V D µF 16' T µF 10 D µF 16' F 50V F 50V F 50V F 50V F 50V	±10% V ±10% V ±10% V V V ±10% ±5% ±10% ±10%	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 17,18	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HFYK103APA C1HFYK393APA C1HFYK393APA C1HFYK393APA C1HRY-474APA C1CRY-107APA C1ERY-475APA  SEMICONDUCTO IYY-BA328	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 µ Mylar 0.039 µ Electrolytic 0.43 Electrolytic 100 Electrolytic 4.7  RS  IC, BA328	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 C17,18 C19,20 C21,22 C23,24	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2522 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCYK820APA C1HCDK330SL C1CRE-106A C1ARY-476APA C1CRE-477A C1HFRK822A C1HCZJ100SPA C1HCZJ100SPA C1HFYK153APA	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- VR 10k- Ceramic Electroly Ceramic Electroly Electroly Mylar Mylar Mylar Mylar	(6.8 mH) r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 /tic 47 /tic 47 0.0082 µ 10 pl 0.0015 µ	F 50V F 50V D µF 25' F 50V D µF 16' T µF 10 D µF 16' F 50V F 50V F 50V F 50V F 50V	±10% V ±10% V ±10% V V V ±10% ±5% ±10% ±10%	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 17,18	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HFYK103APA C1HFYK393APA C1HFYK393APA C1HFYK393APA C1HRY-474APA C1CRY-107APA C1ERY-475APA  SEMICONDUCTO IYY-BA328	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 µ Mylar 0.039 µ Electrolytic 0.43 Electrolytic 100 Electrolytic 4.7  RS  IC, BA328	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 C17,18 C19,20 C21,22 C23,24 25,26	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2552 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCY K820APA C1HCD K330SL C1CRE-106A C1ARY-476APA C1CRE-477A C1HFR K822A C1HCZJ100SPA C1HFY K153APA C1HFY K153APA C1HFR K152A	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- VR 10k- Ceramic Electroly Ceramic Electroly Electroly Mylar Mylar Mylar Mylar	(6.8 mH) r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 /tic 47 /tic 47 0.0082 µ 10 pl 0.0015 µ	F 50V F 50V D µF 25' F 50V D µF 16' T µF 10 D µF 16' F 50V F 50V F 50V F 50V F 50V	±10% V ±10% V ±10% V V V ±10% ±5% ±10% ±10%	
C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 17,18	4 2222 02360 131 2 3701 30100  EQ & RCA TERMIN 01 10350  Parts Number 4 2352 01490 4 2359 73601  CAPACITORS C1ERY-475LPA C1HCYK820APA C1HFYK103APA C1HFYK393APA C1HFYK393APA C1HFYK393APA C1HRY-474APA C1CRY-107APA C1ERY-475APA  SEMICONDUCTO IYY-BA328	VR 100k-Bx2 Mount Electric P  JAL P.C.B. Assy  Description  DIN Socket 5P 2P Jack  Electrolytic 4.7 Ceramic 82 p Electrolytic 33 Mylar 0.01 µ Mylar 0.039 µ Electrolytic 0.43 Electrolytic 100 Electrolytic 4.7  RS  IC, BA328	7 µF 25 F 50V 3 µF 10 F 50V F 50V 7 µF 50 0 µF 16	±10% V ±10% ±10% V V	L01,02 L03,04 L05,06 L07,08 L09,10 11,12 L13,14 VR01 VR02 VR03 VR04 C01,02 C03,04 C05,06 C07,08 C09,10 C11,12 C13,14 C15,16 C17,18 C19,20 C21,22 C23,24	4 2362 00660 4 2369 22800 131 0 4006 22222 4 2552 00610 4 2552 00150 4 2552 00200 4 2552 00610 4 2552 00610 4 2552 00580 4 2229 25100 4 2229 25100 4 2229 26230 4 2229 26230 CAPACITORS C1HCZK681BPA C1ERY-106LPA C1HCY K820APA C1HCD K330SL C1CRE-106A C1ARY-476APA C1CRE-477A C1HFR K822A C1HCZJ100SPA C1HFY K153APA C1HFY K153APA C1HFR K152A	Pin 1P Plug 6P Cord Ass AF Coil AF Filte Coil (8.2 AF Coil VR 47k- VR 10k- VR 10k- VR 10k- Ceramic Electroly Ceramic Electroly Electroly Mylar Mylar Mylar Mylar	(6.8 mH) r (DOLE r (DOLE mH) (6.8 mH (Bias Tra B B Bx1 Bx1 680 pl /tic 10 /tic 47 /tic 47 0.0082 µ 10 pl 0.0015 µ	F 50V F 50V D µF 25' F 50V D µF 16' T µF 10 D µF 16' F 50V F 50V F 50V F 50V F 50V	±10% V ±10% V ±10% V V V ±10% ±5% ±10% ±10%	

Ref. No.	Parts Number	Description	Ref. No.	Parts Number	Descript	ion		
	CAPACITORS			RESISTORS				
C27,28	C1CRE-227A	Electrolytic 220 µF 16V	R01,02	R2EDZJ100APA	Carbon	10	1/4W	±5%
C29,30	C1ARE-227A	Electrolytic 220 µF 10V	R03,04	R2EDZJ563APA	Carbon	56k	1/4W	±5%
C31,32	C1HFYK222APA	Mylar 0.0022 µF 50V ±10%	R05,06	R2CDZJ102APB	Carbon	1k	1/6W	±5%
C33,34	C1HYYZ102APA	Ceramic 0.001 µF 50V +80,-20%	R07,08	R2EDZJ184APA	Carbon	180k	1/4W	±5%
35,36			R09,10	R2EDZJ154APA	Carbon	150k	1/4W	±5%
C37,38	C1HFYK102APA	Mylar 0.001 μF 50V ±10%	R11,12	R2EDZJ153APA	Carbon	15k	1/4W	±5%
C39,40	C1HSEJ472A	Styrol 4700 pF 50V ±5%	R13,14	R2EDZJ394APA	Carbon	390k	1/4W	±5%
C41,42	C1CRY-106APA	Electrolytic 10 µF 16V	R15,16	R2EDZJ333APA	Carbon	33k	1/4W	±5%
C43	C1HFYK333APA	Mylar $0.033 \mu\text{F} 50\text{V} \pm 10\%$	R17,18	R2EDZJ472APA	Carbon	4.7k	1/4W	±5%
C44	C1HFRK333A	Mylar 0.033 μF 50V ±10%	R19,20	R2EDZJ681APA	Carbon	680	1/4W	±5%
C45,46	C1HRY-105APA	Electrolytic 1 µF 50V	R21,22	R2EDZJ332APA	Carbon	3.3k	1/4W	±5%
C47,48	C1CRY-106APA	Electrolytic 10 µF 16V	R23,24	R2EDZJ392APA	Carbon	3.9k	1/4W	±5%
C49,50	C1HFRK473A	Mylar 0.047 μF 50V ±10%	R25,26	R2EDZJ224APA	Carbon	220k	1/4W	±5%
C51,52	C1EUEM104A	Sint. Alu. 0.1 μF 25V ±20%	R27,28	R2EDZJ332APA	Carbon	3.3k	1/4W	±5%
C53,54	C1EUEM334A	Sint. Alu. 0.33 μF 25V ±20%	R29,30	R2EDZJ470APA	Carbon	47	1/4W	±5%
C55	C1HRE-474A	Electrolytic 0.47 µF 50V	R31	R2CDZJ103APB	Carbon	10k	1/6W	±5%
C57,58	C1ERY-475APA	Electrolytic 4.7 µF 25V	R32	R2EDZJ103APA	Carbon	10k	1/4W	±5%
C59	C1CRE-227A	Electrolytic 220 µF 16V	R33,34	R2EDPJ560A	Carbon	56	1/4W	±5%
C60	C1ARE-226A	Electrolytic 22 µF 10V	R35,36	R2EDZJ332APA	Carbon	3.3k	1/4W	±5%
C61,62	C1ERY-475APA	Electrolytic 4.7 μF 25V	R37,38	R2EDZJ473APA	Carbon	47k	1/4W	±5%
C63,64	C1HFRJ153A	Mylar $0.015 \mu F 50V \pm 5\%$	R39,40	R2EDZJ154APA	Carbon	150k	1/4W	±5%
C67,68	C1HFRJ183A	Mylar 0.018 μF 50V ±5%	R41,42	R2EDZJ274APA	Carbon	270k	1/4W	±5%
69,70			R43,44	R2EDZJ334APA	Carbon	330k	1/4W	±5%
C71,72	C1HFRJ153A	Mylar $0.015 \mu F 50V \pm 5\%$	R45,46	R2EDZJ562APA	Carbon	5.6k	1/4W	±5%
C73,74	C1HFRJ223A	Mylar $0.022 \mu F$ 50V $\pm 5\%$	R47,48	R2EDZJ183APA	Carbon	18k	1/4W	±5%
C75,76	C1CRY-106APA	Electrolytic 10 µF 16V	R49,50	R2EDZJ103APA	Carbon	10k	1/4W	±5%
C77,78	C1HAYK474DPA	Electrolytic 0.47 µF 50V	R51,52	R2CDZJ822APB	Carbon	8.2k	1/6W	±5%
C79	C1ERY-106APA	Electrolytic 10 µF 25V	R53	R2EDZJ124APA	Carbon	120k	1/4W	±5%
C80	C1ERE-106A	Electrolytic 10 µF 25V	R54	R2EDZJ822APA	Carbon	8.2k	1/4W	±5%
C81,82		Mylar $0.0022 \mu\text{F} 50V \pm 10\%$	R55	R2EDZJ103APA	Carbon	10k	1/4W	±5%
C83,85	C1HRY-474APA	Electrolytic 0.47 $\mu$ F 50V	R56	R2EDPJ121A	Carbon	120	1/4W	±5%
86,87			R57	R2CDZJ822APB	Carbon	8.2k	1/6W	±5%
88,89			R58	R2EDZJ822APA	Carbon	8.2k	1/4W	±5%
C90	C1ARY-476APA	Electrolytic 47 µF 10V	R59	R2CDZJ103APB	Carbon	10k	1/6W	±5%
C91,92	C1ECZM103XPA	Ceramic 10000 pF 25V ±20%	R60	R2EDZJ103APA	Carbon	10k	1/4W	±5%
C93,94	C1HFRK223A	Mylar $0.022 \mu\text{F} 50V \pm 10\%$	R61,62	R2EDZJ221APA	Carbon	220	1/4W	±5%
			R65,66	R2EDZJ151APA	Carbon	150	1/4W	±5%
	SEMICONDUCTO	RS	R67,68	R2EDZJ562APA	Carbon	5.6k	1/4W	±5%
D01,02	205 5 9040 44210	Diode, DS-442	R69,70	R2EDZJ151APA	Carbon	150	1/4W	±5%
03,04			R71,72	R2EDZJ472APA	Carbon	4.7k	1/4W	±5%
05			R73,74	R2EDZJ273APA	Carbon	27k	1/4W	±5%
IC01,02	IYY-BA301	IC, BA301	R75,76	R2CDZJ222APB	Carbon	2.2k	1/6W	±5%
IC03,04	IUU-LM1111N	IC, LM1111AN, BN, CN	R77,78	R2EDZJ153APA	Carbon	15k	1/4W	±5%
IC05		IC, NJM4558 DX	R79,80	R2EDZJ333APA	Carbon	33k	1/4W	±5%
Q01,02	203 5 5000 53660		R81,82	R2EDZJ122APA	Carbon	1.2k	1/4W	±5%
03,04			R83,84	R2CDZJ682APB	Carbon	6.8k	1/6W	±5%
Q05,06	203 5 4921 01270	TR 2SD1012 G	R85,86	R2CDZJ103APB	Carbon	10k	1/6W	±5%
	203 5 5000 53660		87,88					
09,10		·	89,90					
11,12			R91	R2EDZJ103APA	Carbon	10k	1/4W	±5%
13,14			R92	R2EDZJ472APA	Carbon	4.7k	1/4W	±5%
15,16			R93,94	R2EDZJ102APA	Carbon	1k	1/4W	±5%
			R95,96	R2EDZJ472APA	Carbon	4.7k	1/4W	±5%
			R97,98	R2EDZJ101APA	Carbon	100	1/4W	±5%

### PARTS LIST (Continued)

### TONE AMP & VU METER P.C.B. Assy 131 0 4001 10370

Q07,08 203 5 5000 53660 TR 2SC536F

Ref. No.	Parts Number	Description	Ref. No.	Parts Number	Description		
	4 2222 02330	VR 10k-Bx2		RESISTORS			
	4 2222 02340		DO1 00		Carda on 11	1 /6\\/	+E0/
VR01	4 2229 26230		R01,02 R03,04	R2CDZJ102APB	Carbon 1k	1/6W	±5%
VR02	4 2229 26230			R2CDZJ224APB	Carbon 220k	1/6W	±5%
***************************************			R05,06	R2CDZJ334APB	Carbon 330k	1/6W	±5%
	CAPACITORS		R07,08	R2CDZJ472APB	Carbon 4.7k	1/6W	±5%
		EL	R09,10	R2CDZJ102APB	Carbon 1k	1/6W	±5%
C01,02	C1HRY-105APA	Electrolytic $1 \mu F 50V$	R11	R2EDZJ471APA	Carbon 470	1/4W	±5%
C03,04	C1ERY-475APA	Electrolytic 4.7 µF 25V	R12	R2CDZJ392APB	Carbon 3.9k	1/6W	±5%
C05	C1CRY-107APA	Electrolytic 100 μF 16V	R13	R2CDZJ102APB	Carbon 1k	1/6W	±5%
C06	C1HYYZ102A	Ceramic 0.001 µF 50V +80,-20%	R14	R2CDZJ184APB	Carbon 180k	1/6W	±5%
C07	C1HRY-474APA	Electrolytic 0.47 $\mu$ F 50V	R15	R2EDZJ154APA	Carbon 150k	1/4W	±5%
C08	C1HCYK330APA		R16	R2CDZJ223APB	Carbon 22k	1/6W	±5%
C09	C1HCDK820SL	Ceramic 82 pF 50V ±10%	R17	R2EDZJ472APA	Carbon 4.7k	1/4W	±5%
C10	C1ERE-475A	Electrolytic 4.7 µF 25V	R18	R2CDZJ104APB	Carbon 100k	1/6W	±5%
C11	C1HCYD100APA		R19,20	R2EDZJ471APA	Carbon 470	1/4W	±5%
C12	C1ARY-476APA	Electrolytic $47 \mu F 10V$	R21,22	R2CDZJ102APB	Carbon 1k	1/6W	±5%
C13	C1CRY-106APA	Electrolytic 10 μF 16V	R23,24	R2CDZJ684APB	Carbon 680k	1/6W	±5%
C14	C1CRY-107APA	Electrolytic 100 μF 16V	R25,26	R2CDZJ124APB	Carbon 120k	1/6W	±5%
C15,16	C1HRY-105APA	Electrolytic $1 \mu F 50V$	R27,28	R2CDZJ472APB	Carbon 4.7k	1/6W	±5%
C17,18	C1ERE-475A	Electrolytic $4.7 \mu F 25V$	R29,30	R2CDZJ681APB	Carbon 680	1/6W	±5%
C19,20		Mylar $0.0012 \mu\text{F} 50V \pm 10\%$	R31,32	R2CDZJ153APB	Carbon 15k	1/6W	±5%
C21,22	C1HFYK103APA	Mylar $0.01 \mu\text{F}  50\text{V}  \pm 10\%$	R33,34	R2CDZJ222APB	Carbon 2.2k	1/6W	±5%
23,24			R35,36	R2CEZJ123APB	Carbon 12k	1/6W	±5%
.C25,26	C1HFRK683A	My Iar $0.068 \mu F 50V \pm 10\%$	R37,38	R2CDZJ102APB	Carbon 1k	1/6W	±5%
C27,28	C1CRY-107APA	Electrolytic 100 µF 16V	R39,40	R2CDZJ684APB	Carbon 680k	1/6W	±5%
C29,30	C1HAEM105D	Electrolytic 1 µF 50V ±20%	R41,42	R2CDZJ124APB	Carbon 120k	1/6W	±5%
C31,32	C1HRY-474APA	Electrolytic 0.47 μF 50V	R43,44	R2CDZJ472APB	Carbon 4.7k	1/6W	±5%
C33	C1ARE-107A	Electrolytic 100 µF 10V	R45,46	R2CDZJ152APB	Carbon 1.5k	1/6W	±5%
C34	C1ARY-107APA	Electrolytic 100 µF 10V	R47,48	R2EDZJ102APA	Carbon 1k	1/4W	±5%
C35,36	C1CRY-106APA	Electrolytic 10 µF 16V	R49,50	R2CDZJ103APB	Carbon 10k	1/6W	±5%
C37,38	C1ARY-226APA	Electrolytic 22 µF 10V	51,52				
C39	C1ERE-475A	Electrolytic 4.7 μF 25V	R53,54	R2CDZJ473APB	Carbon 47k	1/6W	±5%
C40	C1ERY-475APA	Electrolytic 4.7 µF 25V	R55,56	R2HXBJ470A	Oxide Metal Film		
C41,42	C1CRY-106APA	Electrolytic 10 µF 16V	R57	R2EDZJ471APA	Carbon 470	1/4W	±5%
C43,44	C1HYDZ102A	Ceramic 0.001 $\mu$ F 50V +80,-20%					
	SEMICONDUCTO	RS					
D01,02 03,04 05,06 07,08 09,10 11,12	DYY-SLR-54UR	L.E.D., SLR-54UR (Red)					
D13 IC01 IC02,03 Q01,02	202 5 3210 05620 IYY-BA301 IYY-BA6137 203 5 5251 57160	Zener Diode, GZA5.6U IC, BA301 IC, BA6137 TR 29C1571E					
Q03,04	203 5 5251 57170						
Q05,06	203 5 5000 53670						
007.00		TD 200506E					

# PARTS LIST (Continued)

### MIC JACK P.C.B. Assy

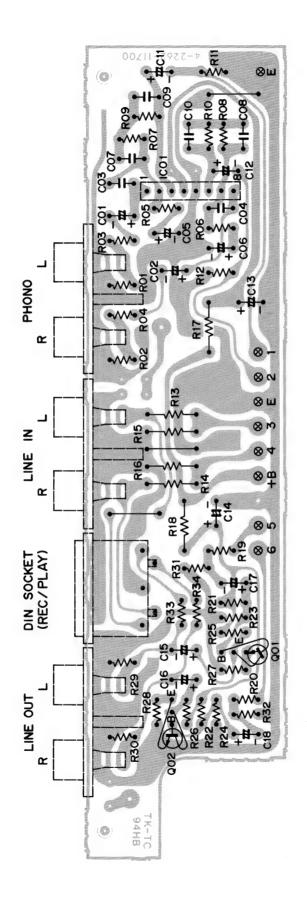
Description
No. Parts Number  SEMICONDUCTO  202 5 2470 13540 203 5 9040 44210 206 5 9040 44210 208 5 3210 05610 208 5 3210 05610 203 5 6850 40050 203 5 5000 53660  RESISTORS  RECOZJ103APB R2CDZJ163APB R2CDZJ22APB R2CDZJ1563APB R2CDZJ1563APB R2CDZJ1563APB R2CDZJ103APB R2CDZJ163APB R2CDZJ103APB
Description  RS  Diode, DS135D Diode, DS-442 Zener Didoe, GZA5.6L Diode, DS-442 Zener Didoe, GZA5.6L Diode, DS-442  IC, LC7510 TR 2SD400 E, F TR 2SC536 G TR 2SC536 F, G  Carbon 10k 1/6W Carbon 10k 1/6W Carbon 10k 1/6W Carbon 22k 1/6W Carbon 22k 1/6W Carbon 56k 1/6W Carbon 150k 1/6W Carbon 5.6k 1/6W Carbon 150k 1/6W Carbon 10k 1/6W Carbon 5.6k 1/6W Carbon 5.6k 1/6W Carbon 10k 1/6W Carbon 5.6k 1/6W Carbon 10k 1

±5% ±5% ±5%

## PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF AN UNIT. COMPONENTS INDICATED BY A MARK A IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAS SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS. SPECIFIED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT POINTED OUT BY THE MARK.

### PHONO EQ & RCA TERMINAL P.C.BOARD (BOTTOM VIEW)



SYMBOL No. DEVICE B C Q01,02 2SC1571 1.9V 6.4V
---

		S		
		LTAGE	4	8.3V
ш	1.3V	BERS VO	3	3.6V
ပ	6.4V	IC PIN NUMBERS VOLTAGES	2	0.8V
В	1.9V	ICPI	1	1.3V
DEVICE	2SC1571		DEVICE	LA3161
SYMBOL No.	Q01,02		SYMBOL No.	1001

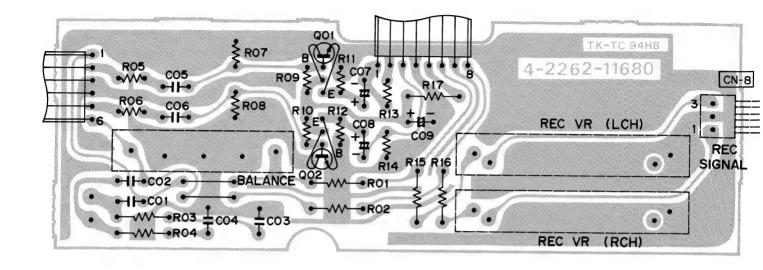
0.87

3.6V

5

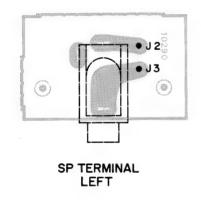
### BALANCE/REC P.C.BOARD

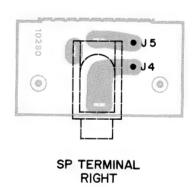
(BOTTOM VIEW)



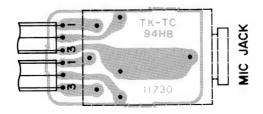
### SPEAKER OUT P.C.BOARD

(BOTTOM VIEW)

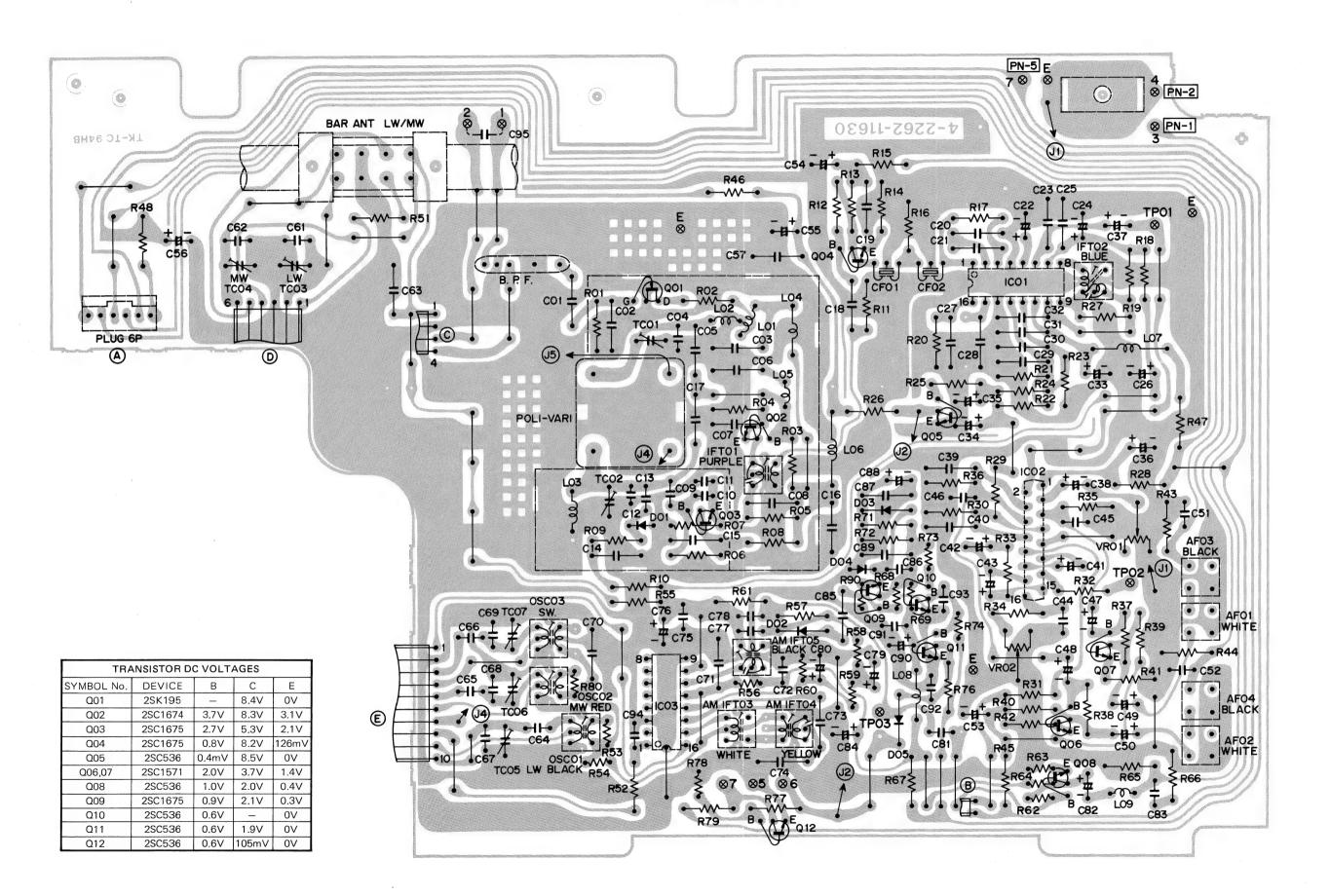




### MIC JACK P.C.BOARD



### RF, IF, MPX P.C.BOARD (BOTTOM VIEW)



						IC PII	N NUME	BERS VC	IC PIN NUMBERS VOLTAGES	S							
SYMBOL No. DEVICE	DEVICE	1	2	3	4	2	9	7	8	6	10	=	12	13	14	15	16
IC01	µPC1167 2.3V		2.3V	2.3V	0\	149mV 6.8V	6.8V	V9.9	0.0V	6.00	0.9	8.9V 0.4mV		3.5V	٥٨	1.6V	6.3V
IC02	LA3370	8.5V	2.87	3.27	2.7V	3.2V 2.7V 4.7V 4.7V	4.7V	2.1V 3.4V		٥	0.6V	2.5V 2.4V	1	1.6V 2.4V		2.4V	2.5V
1003	µPC1018C 2.4\	2.4V	ı	ı	1	ı	1	ı	ı	70	0.77	2.8V	3.00	0.67	0.77	2.4V	0.77

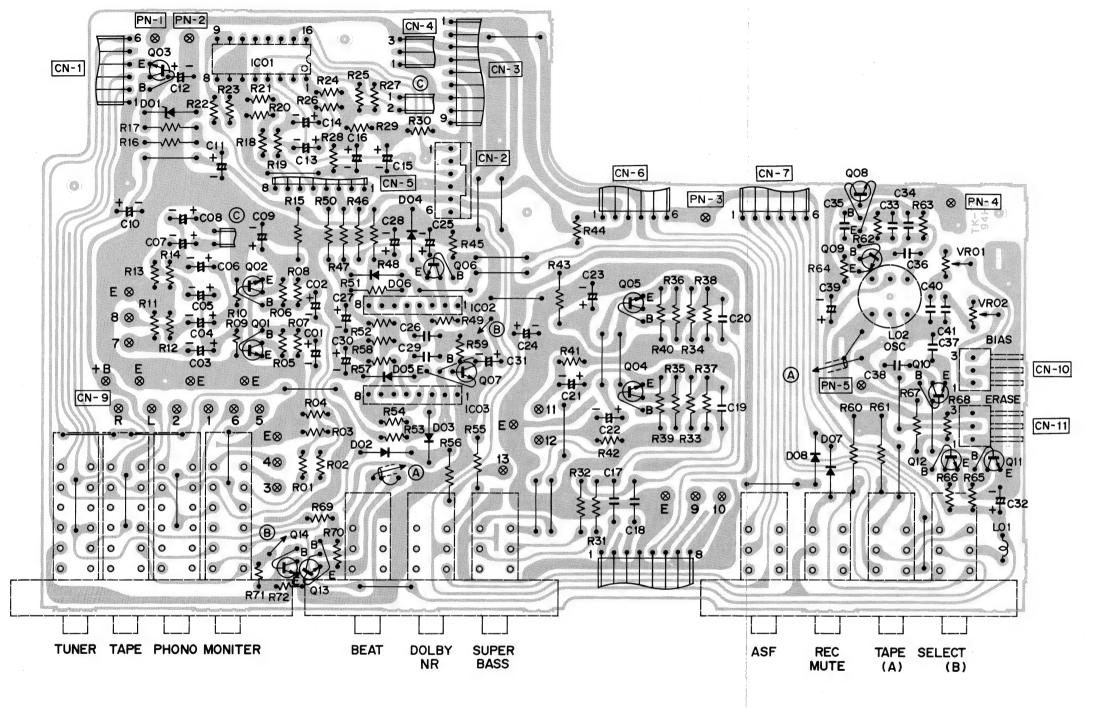
**-41-**

### **FUNCTION & CONTROL P.C.BOARD**

(BOTTOM VIEW)

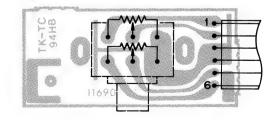
### **BAND SW. P.C.BOARD**

(BOTTOM VIEW)



COS -1166 - CN-1 - C	01 T 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S R R C C C C C C C C C C C C C C C C C			(E)
	FM	SW	MW	LW	

### **VOLUME P.C.BOARD**



VOLUME

						IC P	IN NUM	BERS VO	DLTAGE	S							
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
IC01	MSM4053	3.9V	3.9V	3.9V	3.9V	3.9V	0V	0V	0V	5.9V	5.9V	0V		_	_	3.9V	8.1V
IC02,03	BA223	0V	9.3V	2mV	9.3V	6.1V	3.7mV	3.7mV	9.3V		_	_	_	_	_		_

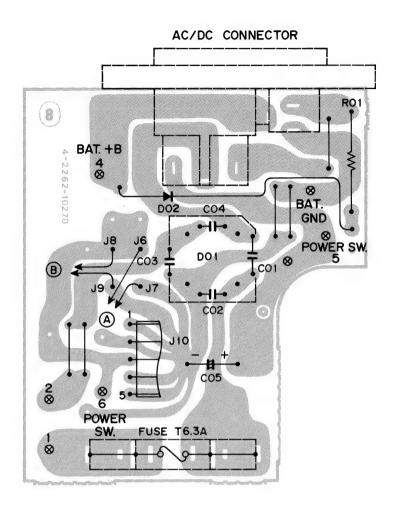
### MAIN AMPLIFIER P.C.BOARD

(BOTTOM VIEW)

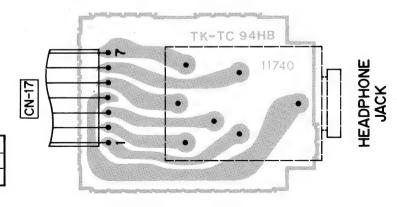
### J10 (A) ICO2 PLUG 9F PLUG 7P J8 co9 CN-15 ICO1 **本**DO1 R21 C29 C23

### POWER SUPPLY P.C.BOARD

(BOTTOM VIEW)

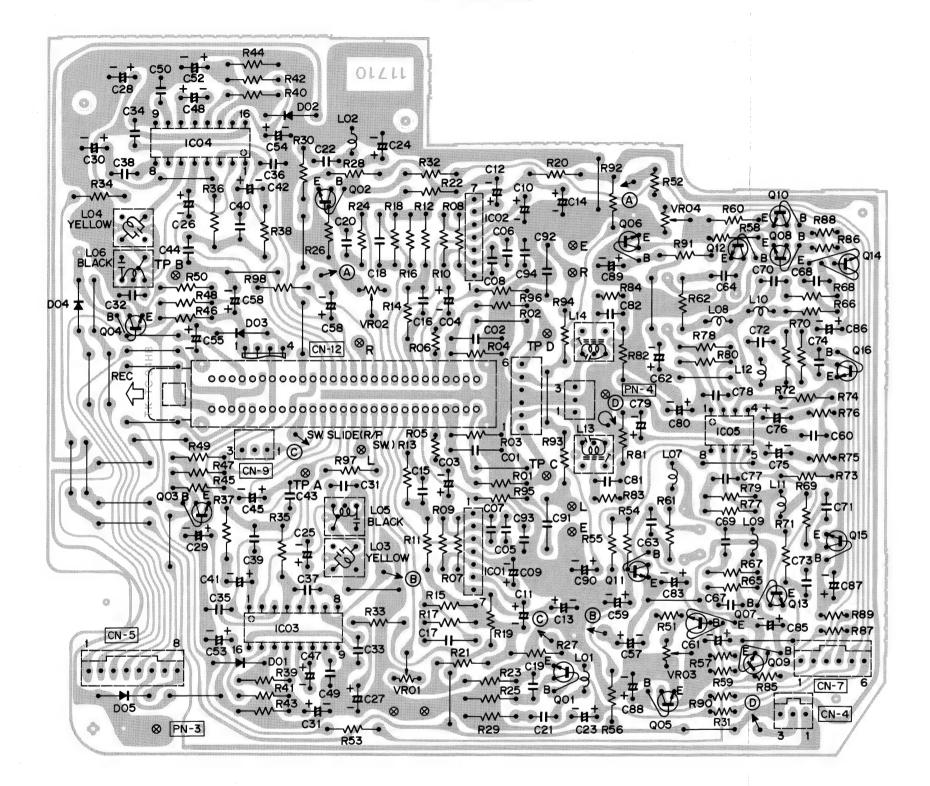


### **HEADPHONE P.C.BOARD**



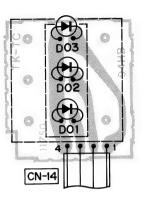
### CASSETTE REC/PLAY P.C.BOARD

(BOTTOM VIEW)

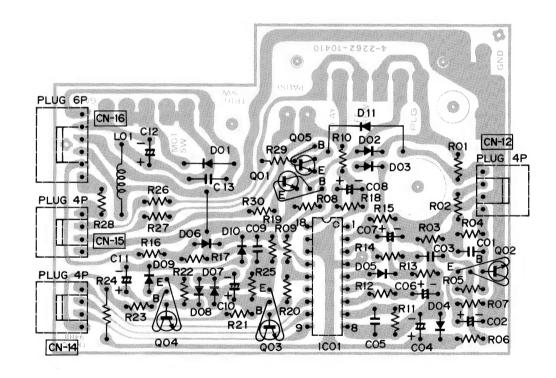


### **ASF IND. P.C.BOARD**

(BOTTOM VIEW)



### **ASF CONTROL P.C.BOARD**



			TRANS	ISTOR	DC VOLTAGES	;			
SYMBOL No.	DEVICE	В	С	E	SYMBOL No.	DEVICE	В	С	E
Q01	2SD400	0.6V	1.8mV	0V	O03	2SC536	0.6V	7mV	0V
Q02	2SC536	0.9V	2.2V	0.3V	Q04	2SC536	0.6mV	1.9V	0V

					-	C PIN N	UMBER	S VOLT	AGES							
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
IC01,02	BA301	1.8V	0.5V	17mV	0V	0.5V	5.7V	9.9V	_	_	_	_	_	_	_	
IC03,04	LM1111	4.5V	4.6V	4.6V	4.6V	4.2V	4.6V	4.5V	4.6V	0V	4.6V	4.7V	1.5V	1.5V	1.2V	1.2V
IC05	NJM4558	_		_	0V	5.4V	5.4V	5.4V	10.0V	_	_	_	_	_	_	_

							IC PI	N NUME	BERS VO	LTAGE	S								
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IC01	LC7510	_	2.0V	1.8V	5.6V	0.6V	3mV	1.8V	2mV	0V	5.6V	5.6V	60mV	_	5.5V	2mV	5.6V	5.6V	4mV

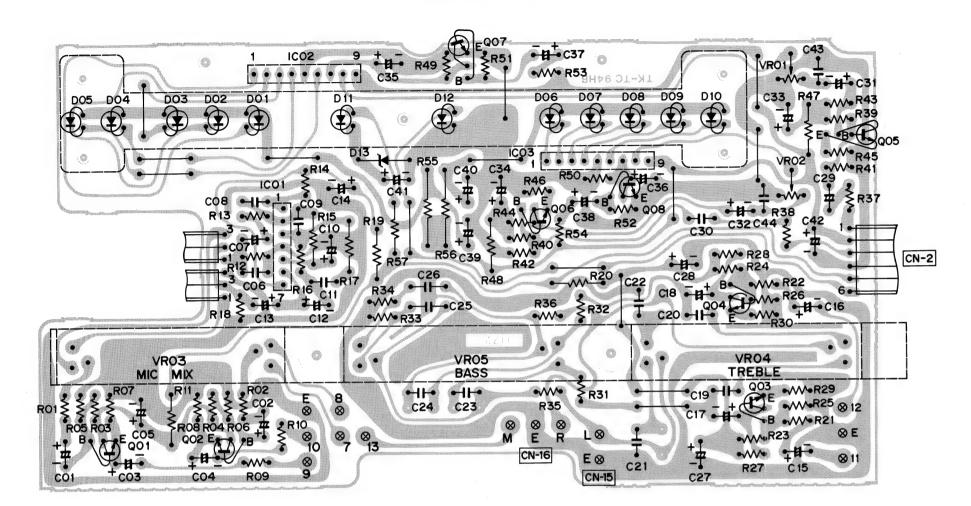
### **TONE AMP & VU METER P.C.BOARD**

(BOTTOM VIEW)

### POINTER/TUNE P.C.BOARD

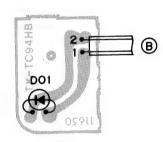
(BOTTOM VIEW)





### STEREO IND. P.C.BOARD

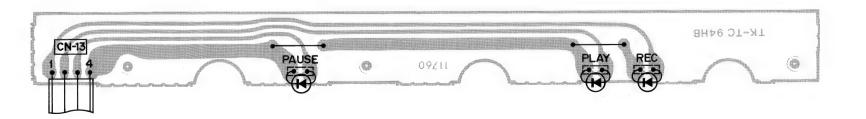
(BOTTOM VIEW)



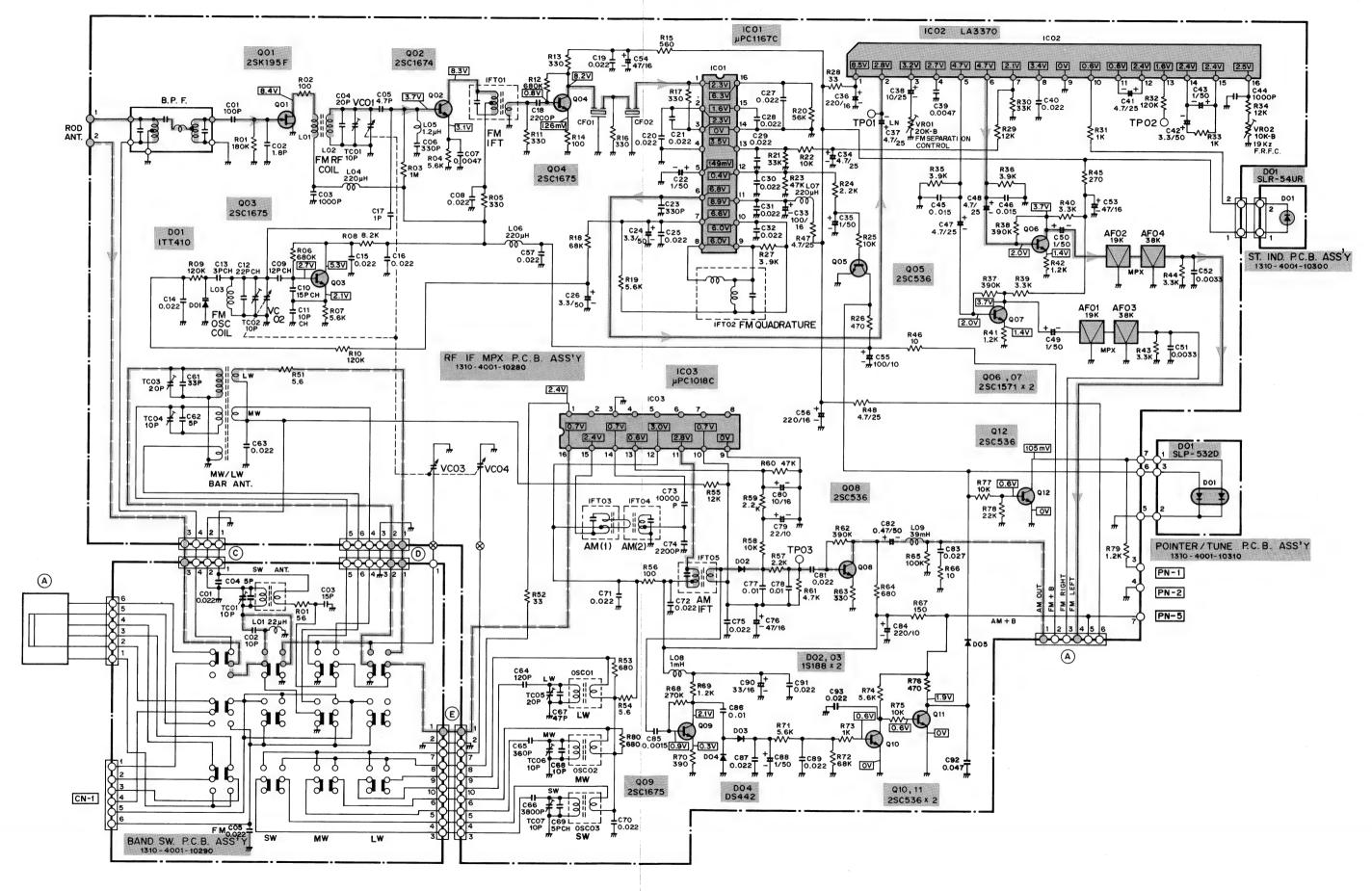
TRA	NSISTOR D	CVOLT	AGES	
SYMBOL No.	DEVICE	В	С	E
Q01,02	2SC1571	5.1V	9.6V	4.5V
Q03,04	2SC1571	1.1V	5.7V	0.5V

		Ī	C PIN N	UMBER	SVOLT	AGES				
SYMBOL No.	DEVICE	1	2	3	4	5	6	7	8	9
IC01	BA301	1.7V	0.5V	10mV	0V	0.5V	6.0V	9.9V		
IC02,03	BA6137	6.1 V	6.2V	9.3V	8.9V	0V	8.3V	0.5V	_1.5mV	-2mV

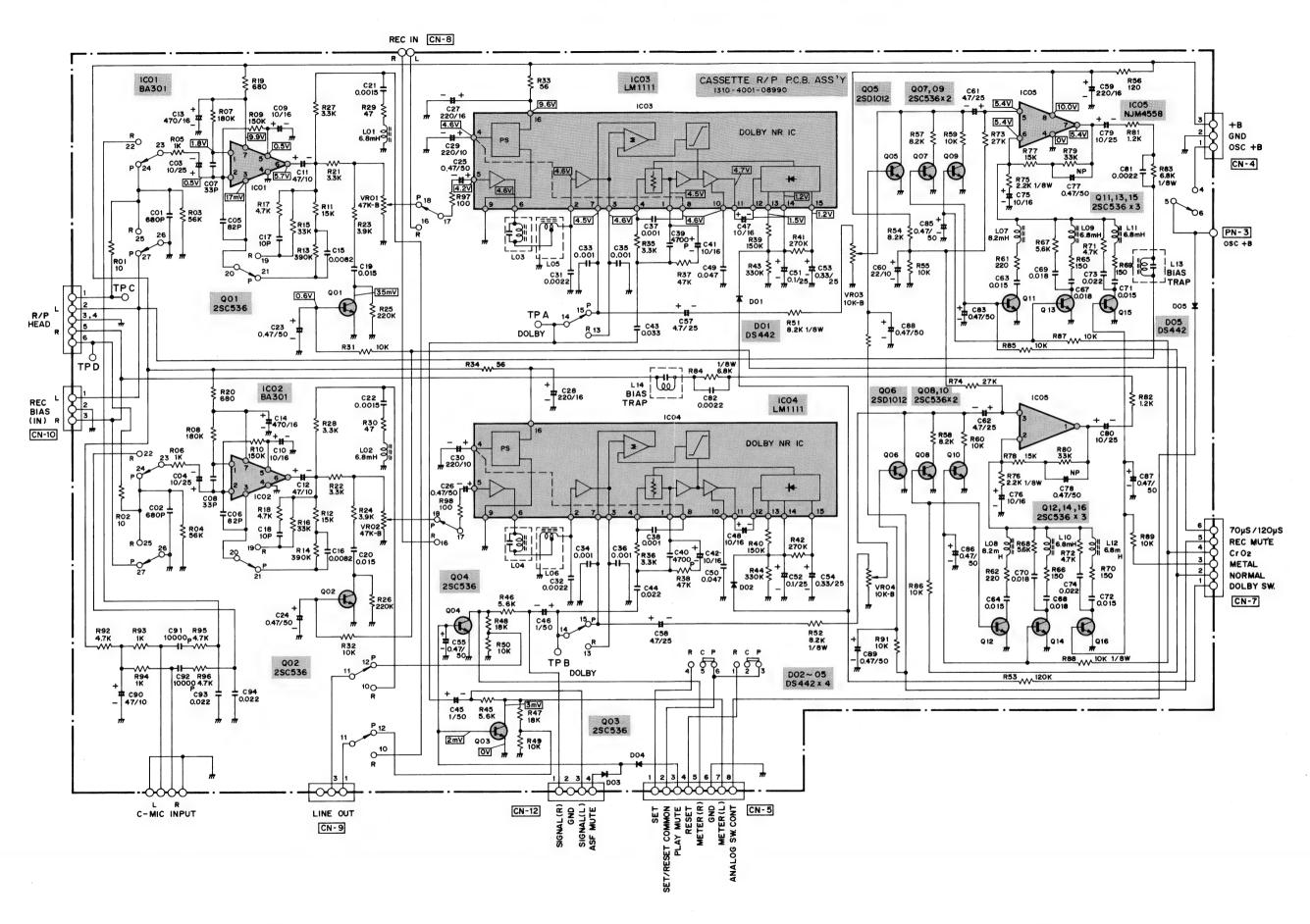
### **DECK MODE IND. P.C.BOARD**



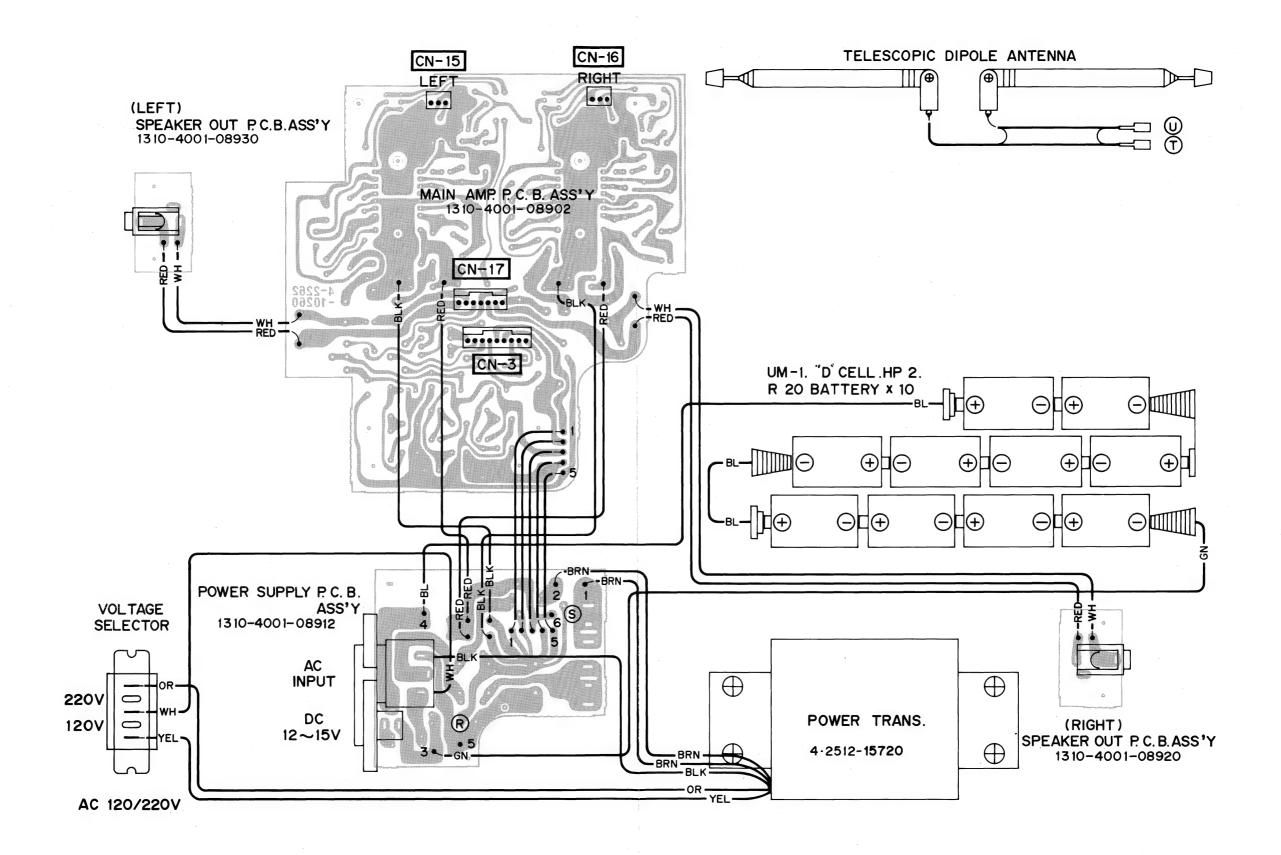
### **SCHEMATIC DIAGRAM (1)**



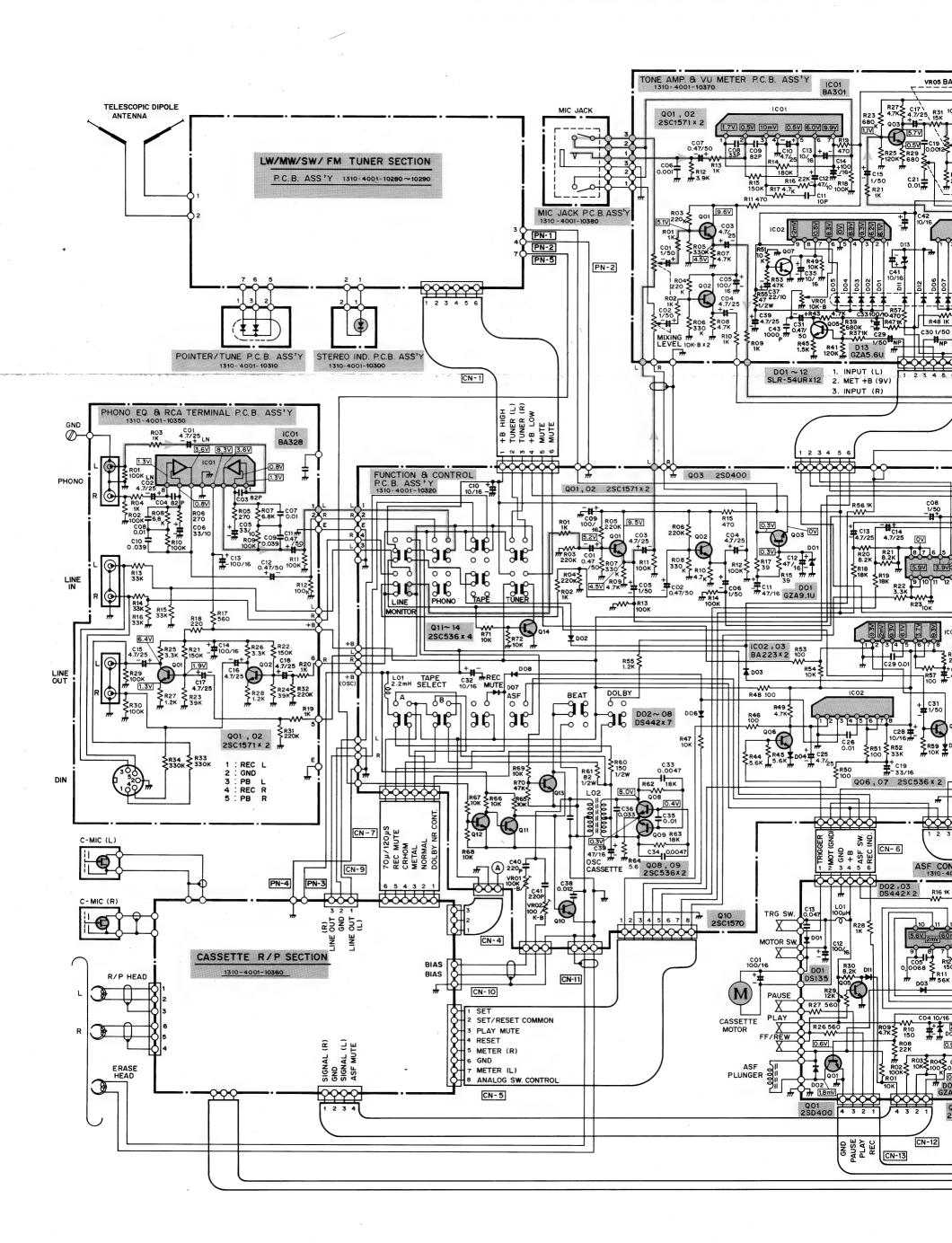
### SCHEMATIC DIAGRAM (2) (Continued)



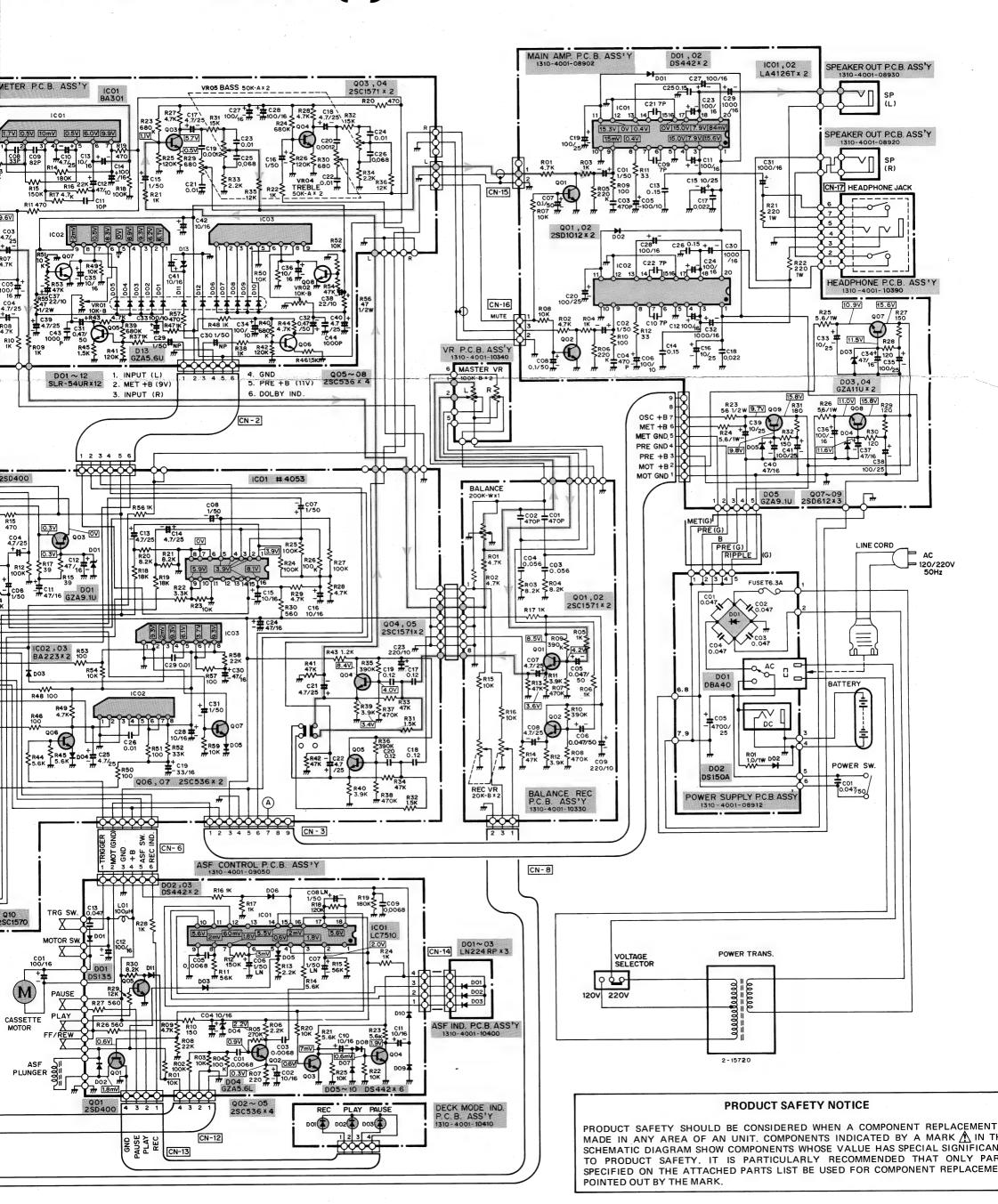
### POINT TO POINT WIRING DIAGRAM



### PH 480L SCHEMATIC DIAC



### EMATIC DIAGRAM (3)

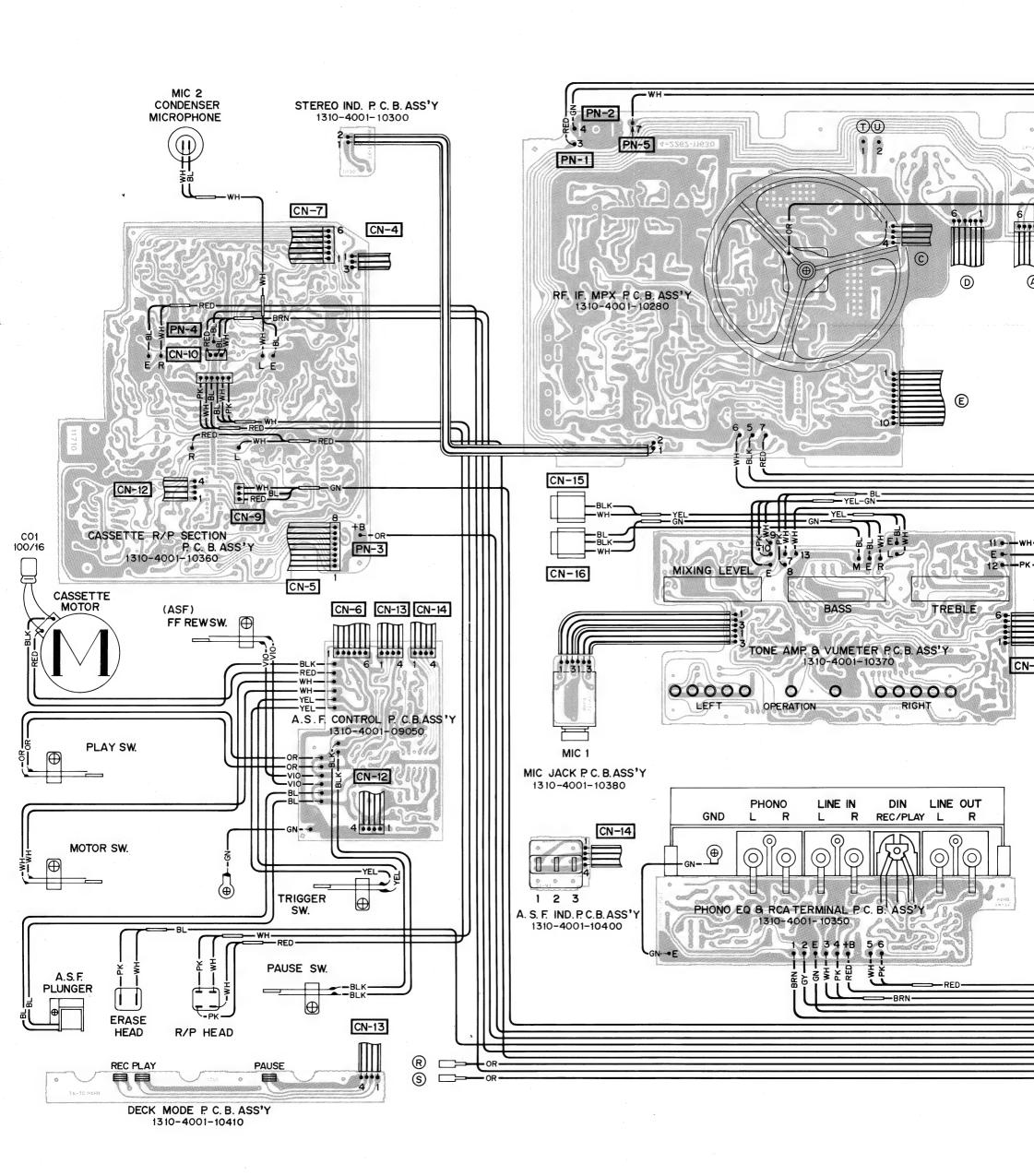


### NOTES:

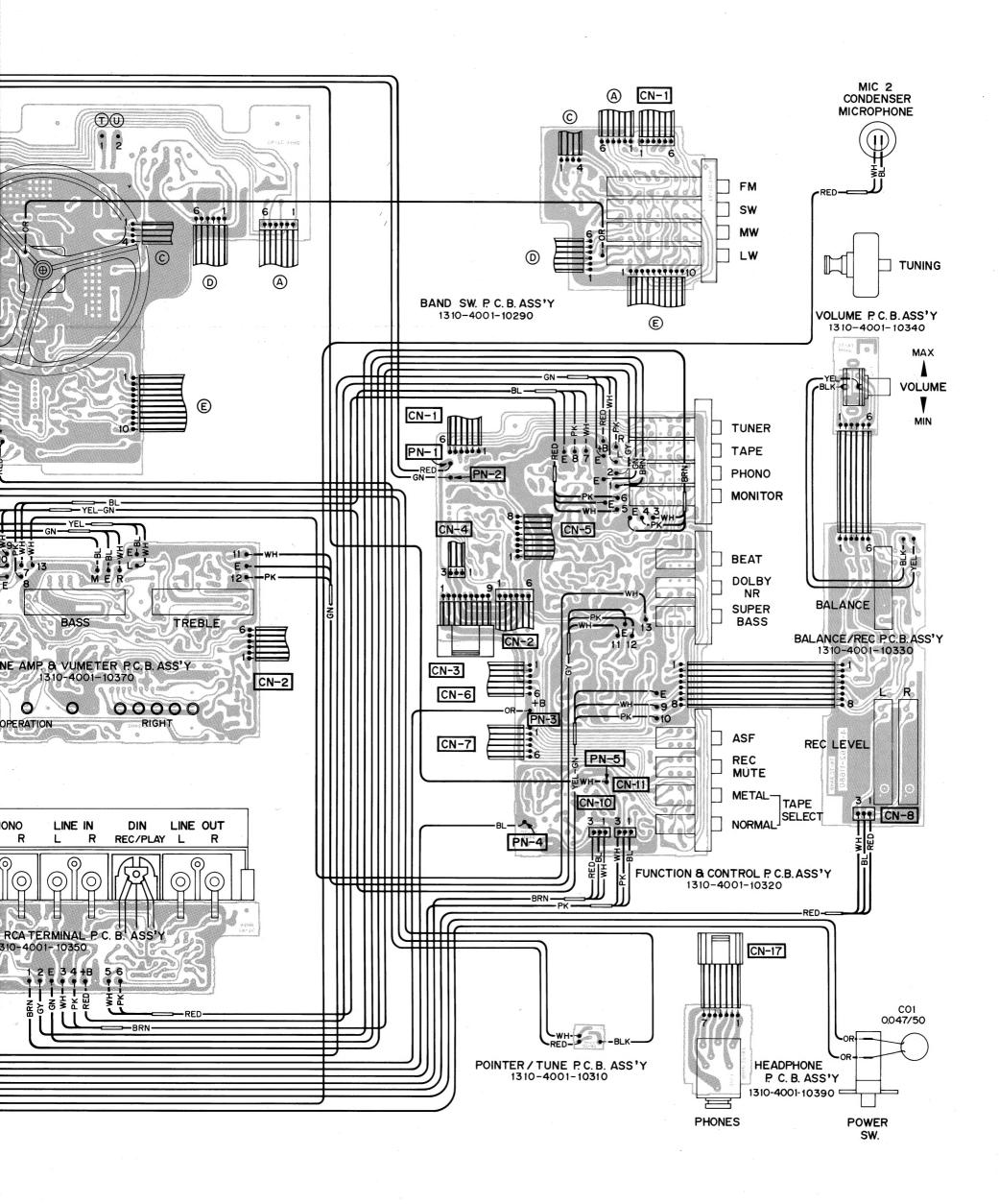
- 1. All resistors values are indicated in "ohm" (K=10<sup>3</sup>, M=10<sup>6</sup>).
- 2. All capacitors values are indicated in " $\mu$ F" (P=10<sup>-12</sup>).
- 3. All voltages indicated on the schematics are measured under the
- following conditions.
- b. All voltages ±10% with respect to chassis gr
- c. No signals at input terminals
- d. AC input at 220 volts 50 Hz
- 4. This is a basic schematic diagram.

a. Use a V.T.V.M. Because Fisher products are subject to continuous improvement, Fisher Corporation reserves the right to make any change modifications without notice.

### POINT TO POINT WIRING DIA

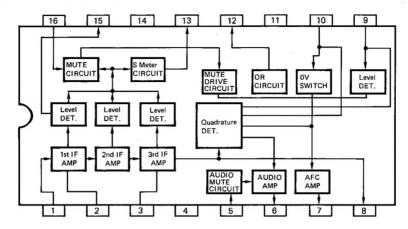


### INT WIRING DIAGRAM

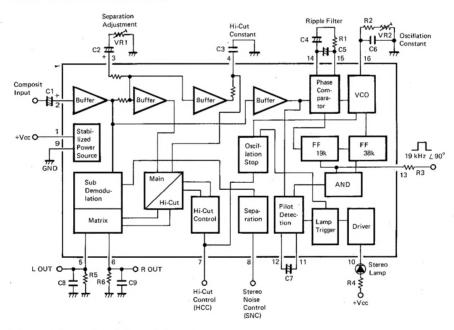


### IC EQUIVALENT CIRCUIT & BLOCK DIAGRAM

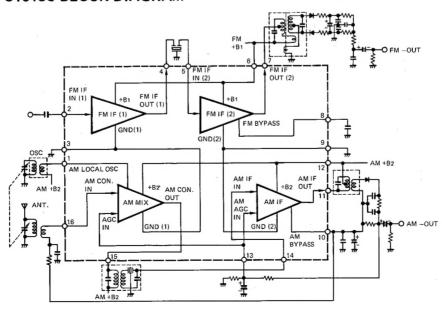
### FM IF IC $\mu$ PC1167C2 BLOCK DIAGRAM



### FM MPX IC LA3370 BLOCK DIAGRAM

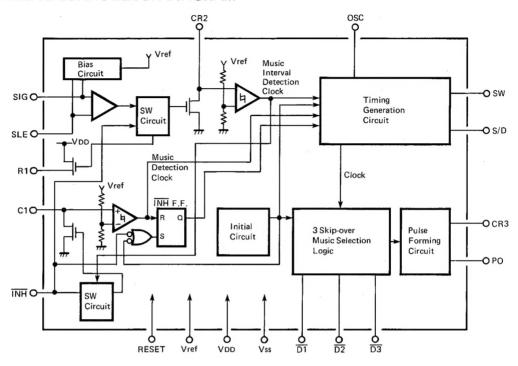


### AM RF/IF IC µPC1018C BLOCK DIAGRAM

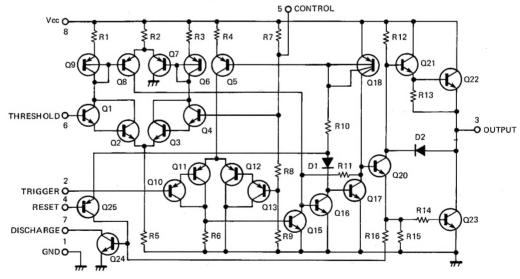


### IC EQUIVALENT CIRCUIT & BLOCK DIAGRAM (Continued)

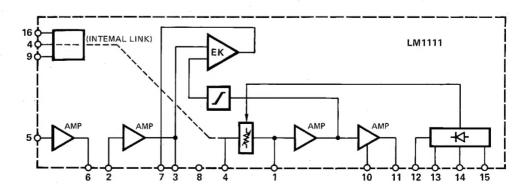
### **ASF CONTROL IC LC7510 BLOCK DIAGRAM**



### **MUTING IC BA223 EQUIVALENT CIRCUIT**



### **DOLBY NR IC LM1111 BLOCK DIAGRAM**



### SEMICONDUCTOR LEAD IDENTIFICATION

